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RESEARCH, DEVELOPMENT, TEST AND EVALUATION (R.T.D. & E) PROGRAMS (R-1) DEPARTMENT OF DEFENSE BUDGET FOR FISCAL YEAR 1987

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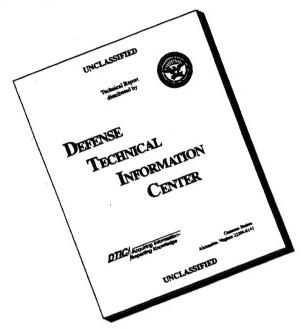
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Preface

The R.D.T. & E. Programs (R-1) exhibit is derived from and consistent with the DoD Five Year Defense Program R.D.T. & E. Annex data base. The R-1 is provided annually to the DoD oversight committees of the Congress coincident with the transmission by the President of the Budget of the United States Government. It is accompanied by an automated data base submission to the House Committee on Administration for input to the House Information System. An unclassified version is provided to OASD(PA) for use by non-DoD activities.

Office of the Assistant Secretary of Defense

Comptroller

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RDT&E PROGRAMS (R-1)

PRESIDENT'S FEBRUARY BUDGET DISTRIBUTION:	20 USDR&E 3 DUSD (P) 8 ASD (A&L) 5 ASD (C31) 1 ASD (C)	1 DASD (C) (P/B) 2 DASD (C) (P/B) 1 DASD (COST & AUDIT) 1 DIR FOR P/S (P/B) 8 DIR FOR R&D (P/B) 6 DIR FOR CONSTR (P/B) 2 DIR (PA&E)	1 DIR (OT&E) 1 DoD IG 2 ARMY 1 OASA (IL&FM) 2 NAVY 2 AIR FORCE	JCS DARPA DIMA SDIO NSA DIA DIA	1 DLA DRSP 1 JTC3A 1 USUHS 6 OMB 6 GAO CBO LIBRARY OF CONGRESS
BUDGET ESTIMATE DISTRIBUTION:	E (PDASD (C) DASD (C) DASD (C) (P/B) DASD (COST & AUDIT) DIR FOR P/S (P/B) DIR FOR R&D (P/B) DIR FOR CONSTR (P/B)	DIR (OT&E) DoD IG ARMY OASA (IL&FM) NAVY AIR FORCE	JCS DARPA DMA SDIO NSA DCA DIA	DLA DRSP JTC3A USUHS OMB

Classified by: Multiple sources Declassify: OADR

DEPARTMENT OF DEFENSE FY 1967 R D T & E PROGRAM

EXHIBIT R-1

11,735 1,079,549 6, 305, 634 10, 603, 599 17,857,039 44, 116, 799 2, 839, 032 12,061,548 3, 198, 996 33, 422, 052 FY 1988 9,240,914 97,878 14, 242, 927 10,694,747 44, 116, 799 DATE: 04 FEB 1986 THOUSANDS OF DOLLARS 985, 836 5, 550, 300 2, 599, 443 41,929,900 FY 1987 10, 586, 800 17, 275, 400 8, 364, 300 141,800 11,300 41,929,900 12, 775, 832 11,717,486 2, 972, 784 31,051,381 10,878,519 FY 1986 4,841,472 10,076,939 13, 787, 408 6,642,386 35, 466, 705 1,024,193 2, 424, 852 9,875,290 26,084,716 9, 381, 989 118,500 10, 149, 287 2,611,094 35, 466, 705 FY 1985 4, 305, 185 9,070,906 2, 268, 362 6,742,964 10, 490, 848 22, 871, 139 7, 998, 370 30, 869, 509 4, 150, 927 59,000 30, 869, 509 852, 324 3, 283, 491 2, 516, 641 SUMMARY TOTAL RESEARCH, DEVELOPMENT, TEST & EVALUATION TOTAL RESEARCH, DEVELOPMENT, TEST & EVALUATION RESEARCH DEVEL OPMENT TEST + EVAL, DEF AGENCIES DIRECTOR OF OPERATIONAL TEST + EVALUATION RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6) RESEARCH DEVELOPMENT TEST + EVAL, NAVY DIRECTOR OF TEST + EVALUATION, DEFENSE RESEARCH DEVELOPMENT TEST + EVAL, ARMY RESEARCH DEVELOPMENT TEST + EVAL, AF SUMMARY RECAP OF RESEARCH CATEGORIES OPERATIONAL SYSTEMS DEVELOPMENT SUMMARY BY APPROPRIATION EXPLORATORY DEVELOPMENT ENGINEERING DEVELOPMENT MANAGEMENT AND SUPPORT ADVANCED DEVELOPMENT RESEARCH

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EXHIBIT R-1

	SUMMARY		DATE: 0	04 FEB 1986
			THOUSANDS OF DOLLARS	JF DOLLARS
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SUMMARY RECAP OF BUDGET ACTIVITIES	FY 1985	FY 1986	FY 1987	FY 1988
TECHNOLOGY BASE	3, 120, 686	3,449,045	3, 585, 279	3, 918, 581
ADVANCED TECHNOLOGY DEVELOPMENT	2, 750, 565	4, 234, 299	6, 574, 691	7, 400, 989
STRATEGIC PROGRAMS	8, 168, 999	8,054,403	9, 429, 556	6, 990, 707
TACTICAL PROGRAMS	9,062,224	10, 901, 036	12, 671, 463	13, 193, 710
INTELLIGENCE AND COMMUNICATIONS	3, 953, 010	4, 703, 389	5, 102, 892	5,045,873
DEFENSEWIDE MISSION SUPPORT	3,814,025	4, 124, 533	4, 566, 019	4, 566, 939
TOTAL RESEARCH, DEVELOPMENT, TEST & EVALUATION	30, 869, 509	35, 466, 705	41,929,900	44, 116, 799
SUMMARY RECAP OF FYDP PROGRAMS				
STRATEGIC FORCES	777, 449	1, 109, 359	1, 392, 391	1,552,308
GENERAL PURPÖSE FÖRCES	1, 931, 463	2,016,414	2, 578, 950	2, 457, 544
INTELLIGENCE AND COMMUNICATIONS	5, 025, 413	5,931,112	6, 589, 038	6,367,627
AIRLIFTSEALIFT	36,016	80, 208	112,161	101,347
GUARD AND RESERVE			4, 531	5,056
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)	22, 871, 139	26,084,716	31,051,381	33, 422, 052
CENTRAL SUPPLY AND MAINTENANCE	212, 896	235, 229	192, 177	200,663
TRAINING MEDICAL AND CTHER	5,208	5, 165	4,788	4,367
ADMINISTRATION AND ASSOC ACTIVITIES	5, 200			362
SUPPORT OF OTHER NATIONS	4, 725	4,502	4, 483	4,873
TOTAL RESEARCH, DEVELOPMENT, TEST & EVALUATION	30, 869, 509	35, 466, 705	41,929,900 PAGE 111	44, 116, 799

DEPARTMENT OF THE ARMY FY 1987 R D T & E PROGRAM

SUMMARY

EXHIBIT R-1
DATE: 04 FEB 1986

1,045,085 570,433 318,447 2,940,527 141,690 1,289,452 243, 730 427, 323 199, 419 5, 405, 017 264, 431 780, 654 1, 596, 500 1, 548, 763 1, 214, 669 5,405,017 30, 145 6,305,634 6, 305, 634 FY 1988 6, 305, 634 THOUSANDS OF DOLLARS 243,994 701,923 1,402,456 1,305,610 1,133,493 249, 430 341, 919 142, 370 4, 787, 476 945, 917 488, 034 278, 987 2, 440, 170 130, 420 1, 266, 772 4, 787, 476 762, 824 5, 550, 300 5, 550, 300 29, 105 5, 550, 300 FY 1987 831, 197 502, 856 226, 877 2, 083, 622 97, 770 1, 099, 150 196, 337 218, 071 111, 477 4, 224, 636 566, 496 1, 286, 352 1, 182, 096 924, 991 90,951 4,841,472 FY 1986 4, 224, 636 616,836 4,841,472 4,841,472 193, 428 302, 198 71, 389 3, 645, 814 92, 356 571, 603 1, 023, 013 804, 274 521, 673 220, 502 61,086 971,309 4, 305, 185 FY 1985 984, 466 3,645,814 4, 305, 185 4, 305, 185 1,726,341 232, 671 834, 061 659, 371 TOTAL RESEARCH DEVELOPMENT TEST + EVAL, ARMY TOTAL RESEARCH DEVELOPMENT TEST + EVAL, ARMY RESEARCH DEVELOPMENT TEST + EVAL, ARMY STRATEGIC FORCES
GENERAL PURPOSE FORCES
INTELLIGENCE AND COMMUNICATIONS
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)
CENTRAL SUPPLY AND MAINTENANCE RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6) OPERATIONAL SYSTEMS DEVELOPMENT SUMMARY RECAP OF RESEARCH CATEGORIES SUMMARY RECAP OF BUDGET ACTIVITIES TECHNOLOGY BASE
ADVANCED TECHNOLOGY DEVELOPMENT
STRATEGIC PROGRAMS
IACTICAL PROGRAMS
INTELLIGENCE AND COMMUNICATIONS
DEFENSEWIDE MISSION SUPPORT SUMMARY RECAP OF FYDP PROGRAMS ADVANCED DEVELOPMENT ENGINEERING DEVELOPMENT EXPLORATORY DEVELOPMENT MANAGEMENT AND SUPPORT RESEARCH TOTAL

DEPARTMENT OF THE ARMY FY 1987 R D T & E PROGRAM

EXHIBIT R-1 DATE: 04 FEB 1986 APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY

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ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
IN-HOUSE LAB INDEPENDENT RESEARCH	-	24, 322	25, 105	19,020	20,277 U
DEFENSE RESEARCH SCIENCES	_	208, 349	233, 544	212, 594	219,548 U
UNIVERSITY RESEARCH INITIATIVES	-		6,052	12,380	24,606 U
MATERIALS	-	12,715	12, 481	16, 346	18,920 U
ATMOSPHERIC INVESTIGATIONS	-	5, 575	5, 498	11, 563	13, 686 U
WCLEAR WEAPONS EFFECTS/FLUIDICS	-	12, 476	22, 488	47,797	54,152 U
URVIVABILITY ENHANCEMENT	-				
IRCRAFT WEAPONS TECHNOLOGY	-	3, 594	3, 307	1,416	1,724 U
IRCRAFT AVIONICS TECHNOLOGY	-	7,988	9, 083	11,102	12,083 U
ERONAUTICAL TECHNOLOGY	-	23,713	27, 451	34,814	43, 629 U
IRDRØP TECHNØLØGY	-	1,749	2,053	2, 900	3,094 U
IISSILE TECHNÖLÖGY	-	35, 027	28, 649	24, 587	30, 530 U
ASER WEAPON TECHNOLOGY	-	22,007	11,133	11, 228	14, 195 U
ANK AND AUTCMGTIVE TECHNOLOGY	-	24,547	22, 128	25, 711	29,452 U
ARGE CALIBER AND NUCLEAR TECHNOLOGY	-	37, 127	22, 442		5
SMALL CAL AND FIRE CNTRL TECHNÖLÖGY	-	9, 691	11,561		כ
SALLISTICS TECHNÖLÖGY	-	49,862	43,413	46, 155	48,288 U
CHEMICAL AND SMOKE MUNITIONS	-	15, 909	14,083	23, 228	26,242 U
JÖINT SERVICE SMALL ARMS PRÖGRAM	-	6, 537	5, 493	11,119	11,163 U
VEAPONS & MUNITIONS TECHNOLOGY	-			28, 663	27, 235 U
FACTICAL TELEPRÖCESSING TECHNÖLÖGY	-	15,020	17,213	26, 894	29,260 U
				•AGE A-1-0₹	
	ITEM NOMENCLATURE IN-HOUSE LAB INDEPENDENT RESEARCH DEFENSE RESEARCH SCIENCES UNIVERSITY RESEARCH INITIATIVES MATERIALS ATMOSPHERIC INVESTIGATIONS NUCLEAR WEAPONS EFFECTS/FLUIDICS SURVIVABILITY ENHANCEMENT AIRCRAFT WEAPONS TECHNOLOGY AIRCRAFT WEAPONS TECHNOLOGY AIRCRAFT AVIONICS TECHNOLOGY AIRDROP TECHNOLOGY MISSILE TECHNOLOGY TANK AND AUTOMOTIVE TECHNOLOGY SMALL CAL AND FIRE CNTRL TECHNOLOGY CHEMICAL AND SMOKE MUNITIONS JOINT SERVICE SMALL ARMS PROGRAM WEAPONS & MUNITIONS TECHNOLOGY TACTICAL TELEPROCESSING TECHNOLOGY	} ₀ .	ACT	ACT FY 1985 FY 1986 1 24,322 25,105 1 208,349 233,544 1 12,715 12,481 1 5,575 5,498 1 3,594 3,307 1 7,986 9,083 1 7,986 9,083 1 1,749 22,451 1 1,749 2,053 1 22,007 11,133 1 24,547 22,128 1 49,662 43,413 1 15,909 14,083	ACT

EXHIBIT R-1

DATE: 04 FEB 1986 APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY

AFFR	PPROPRIALION:	APPROPRIATION: 2040 A RESEARCH DEVELOTIENT TEST TESTS OF		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	THOUSANDS OF	DOLLARS
LINE	PROGRAM ELEMENT NUMBER	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
22	62703A	COMBAT SURVEILL TARGET ACQUIS & IDENT	-	6, 759	4,516	7,766	8,021 U
23	62704A	MIL ENVIRONMENTAL CRITERIA DEV	-	2,900	3,067	3,413	3, 932 U
24	62705A	ELECTRONICS AND ELECTRONIC DEVICES	-	20,056	21, 558	24,039	26,414 U
25	62706A	CHEM BICLOGICAL DEF / GEN INVEST	-	36, 852	39, 568	39,656	44,310 U
26	62707A	MAPPING - GEODESY	-	7, 994	000'6	9,678	10,815 U
27	62709A	NIGHT VISION INVESTIGATIONS	-	18,007	20,840	28,056	29,890 U
28	62715A	TACTICAL ELECTRONIC WARFARE TECHNOLOGY	-	10, 290			
58	62716A	HUMAN FACTORS ENG SYS DEV	-	10,987	13,993	17,811	20,127 U
30	62717A	HUMAN PERFORMANCE EFFECT/SIMULATION	-	5, 156	5,228	13, 113	14,760 U
31	62719A	MOBILITY AND WEAPONS EFFECTS TECH	-	9,217	12, 265	14,879	15, 929 U
32	62720A	ENVIRONMENTAL QUALITY TECH	-	11,043	8, 930	8, 760	9,213 U
33	62722A	MANPOWER/PERSONNEL/TRAINING	-	6, 732	7,533	4, 730	4, 703 U
34	62723A	CLOTHING EQUIP AND SHELTER TECH	4	7, 932	966 '8	18,012	17,059 U
32	62724A	JT SVC FOOD SYS TECH	-	5, 943	5, 960	5, 162	5,915 U
36	62725A	COMPUTER AND INFORMATION SCIENCE	-	2,207	2, 198	2,574	2,581 U
37	62727A	NON-SYSTEM TRAINING DEVICES	-	5, 180	5,042	4, 397	6,874 U
38	62730A	62730A COLD REGIONS ENGINEERING TECHNOLOGY	-	7,423	066 '9	4,308	5,025 U
38	62731A	MILITARY FACILITIES ENGINEERING TECHNOLOGY	-	5,347	5,345	5,764	6,208 U
04	62733A	MOBILITY EQUIPMENT TECHNOLOGY	-	13, 365	13,708	15,914	17,848 U
4	62734A	MED DEFENSE AGAINST CHEM AGENTS	-	33, 265	31,101	34,613	39,889 U
42	62746A	TACTICAL SOFTWARE TECHNOLOGY	-		6, 433	10, 794	15, 331 U

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DEPARTMENT OF THE ARMY FY 1987 R D T & E PROGRAM

DATE: 04 FEB 1986 EXHIBIT R-1 APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY

		CONTROL STATE A NESERNOR DEVELORMENT TEST + EVAL, ARMY	4			DATE: 0	DATE: 04 FEB 1986
	PRØGRAM			1		THOUSANDS OF	DOLLARS
LINE		ITEM NOMENOLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
64	62770A	MILITARY DISEASE HAZARDS TECH	-	23,949	27,372	48,677	51, 489 U
4	62772A	COMBAT CASUALTY CARE TECH	-	9,610	8,913	10,376	10, 439 U
5	62775A	COMBAT MAXILLOFACIAL INJURY	-	3,610	2, 166	2,813	3,714 U
46	32777A	SYSTEMS MEALTH HAZARD PREVENT TECH	-	22,114	19, 428	22, 223	23, 130 U
47	62781A	ENERGY TECH APPL FOR MILITARY FACIL	-	2,128	2,259	2,035	2,295 U
	TECHNO	TECHNOLOGY BASE		804,274	831, 197	945,917	1,045,085
8	63102A	MATERIELS AND STRUCTURES	N	8,214	14, 289	20,154	17,772 U
49	63104A	FUELS AND LUBRICANTS	и	4,479	3, 358	3,527	4,186 U
20	63105A	ACQUIRED IMMUNE DEFICIENCY SYNDROME RESEARCH	N		39, 516		ב
51	63201A	AIRCRAFT POWER PLANTS AND PROPULSION	cı.	20,240	19,602	20,365	26,145 U
52	63206A	AIRCRAFT WEAPONS	Ø	11,857	6,877	10,349	10,257 U
53	62207A	AIRCRAFT AVIONICS EQUIPMENT	Ø	20,250	10,838	4,408	8,754 U
54	63209A	AIR MOBILITY SUPPORT	Ø	7,782			٦
52	63211A	ROTARY WING CONTROLS/ROTORS/STRUCTURES	Ø	19,981	15, 379	23, 560	27,065 U
26	63216A	SYNTHETIC FLIGHT SIMULATOR DEVELOPMENT	8	9,189	12,462	11,126	11,581 U
57	63218A	AIRDROF ADVANCEMENT	O.	3,575	3,819	4,547	3,628 U
28	63221A	NOE AVIATION AND NAVIGATION EQUIPMENT	Ø	2,900	3,052	2,370	5,019 U
29	63255A	OPERATIONAL ENHANCEMENTS	Q			2,637	4,370 U
09	63306A	TERMINALLY GUIDED PROJECTILES	Ø	7,484	14,394	27,939	50,690 U
61	63313A	MSL/RÖCKET CONPONENTS	N.	25,483	18, 685	37,881	33,647 U
62	63322A	BATTLEFIELD ENVIRONMENT SIMULATION	(VI		988	7,083	8, 508 U
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EXHIBIT R-1

000	ADDRESS ATT ON:	2040 A RESEARCH DEVELOPMENT TEST + EVAL,	ARMY				04 FEB 1986
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	PRAGRAM		1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
LINE		ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
63	63324A	ARMY DEVELOPMENT AND EMPLOYMENT ACTIVITY	α	38,900	9,588	11,411	15, 393 U
64	63602A	ADVANCED LAND MOB SYSTEMS CONCEPTS	N	13, 152	16,286	10,890	19,886 U
65	63606A	LANDMINE WARFARE/BARRIER DEV	Ø	13, 222	11,184	11,344	13,353 U
99	63607A	JOINT SERVICE SMALL ARMS PROGRAM	83	6,874	3,474	9, 480	7,029 U
67	63621A	COMBAT VEHICLE PROPULSION SYS	CV.	15,244	11,864	9,766	13,791 U
68	63631A	CMBT VEH TURRET AND CHASSIS SUBSYS	N	20, 921	16,912	18,895	22,997 U
69	63636A	COMBAT VEHICLE ARMOR/ANTI-ARMOR	Ø	52,837	11,241	9,411	11,229 U
20	63637A	ADV PROPULSION/LAUNCH SYS FOR MUN	8	7,902	8, 134	5,887	9,831 U
71	63638A	NUCLEAR VULNERABILITY ADV TECHNÖLÖGY	8			6,614	6,451 U
72	63640A	AMMUNITION LOGISTICS	Ø		1,482	2,170	5,415 U
73	63710A	NIGHT VISION ADVANCED DEVELOPMENT	Ø	30, 511	31,495	29, 080	36,813 U
74	63719A	SPECIAL PURPOSE DETECTORS	Ø			2,961	3, 939 U
75	63723A	TACTICAL C4 TECHNOLOGY INTEGRATION	Ø		24, 357	13, 335	14,567 U
76	63725A	REMOTELY PILOTED VEHICLES/DRONES	Ø	13, 408			D
77	63727A	SPACE TECHNOLOGY INTEGRATION	Ø			987	985
78	63731A	MANPGWER AND PERSONNEL	N	11,349	13,882	14,204	16, 323
79	63734A	ENGINEERING SYSTEMS	N	1,271	1,927	5, 393	6,450 U
80	63736A	HUMAN FACTORS ENGINEERING APPLICATIONS	N			2,458	2,974 U
8	63737A	ANTI-RADIATION MSL COUNTER MEASURES	0	4,441	4,890		
82	63739A	HUMAN FACTORS IN TNG/OPER EFFECT	Ø	9,684	8,974	9, 191	10,377 U
83	63742A	ADV ELECTRÖNIC DEVICES DEV	8	8,748	9, 635	5, 537	5, 141
					_	PAGE A-4	

DEPARTMENT OF THE ARMY FY 1987 R D T & E PROGRAM

DATE: 04 FEB 1986 EXHIBIT R-1 APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY

	PROGRAM		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	THOUSANDS OF DOLLARS	F DOLLARS
L I NE	ELEMENT	I TEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
84	63743A	EDUCATION AND TRAINING	Ø	10,075	11,787	7,033	9,028 U
80	63744A	TRAINING SIMULATION	cu.	7, 600	5, 459	6,618	7,667 U
86	63748A	TEST MEASUREMENT & DIAGNØSTIC EQUIPMENT DEVEL	C)	4,918	5, 159	7,174	8, 902 U
87	63749A	TECHNICAL VULNERABILITY REDUCTION	Ø	9, 103	4, 299	3, 300	3,718 U
88	63752A	DEMILITARIZATION CONCEPTS	Ø	8,312	9, 463		D
89	63756A	DOD SOFTWARE INITIATIVES (STARS)	C4	12, 552	41,492		כ
06	63758A	ARMY BATTLEFIELD TECHNOLOGY INTEGRATION	C)		11,856	12, 385	12,715 U
16	63759A	CB LEF/SMK ADV TECHNOLOGY DEMONSTRATIONS	QI.	5,177	3,009	7,484	3,564 U
92	63761A	ELEC WRFR VULN/SUSCEP TECH SUPPORT	N	15,845	14,612		
93	63762A	EW FEASIBILITY DEVELOPMENT	Q	9,652	7, 157		
94	63763A	NONSYSTEMS MEDICAL MATERIAL DEVELOPMENT	a	14,644	16,026	19, 492	23,077 U
92	63764A	MEDICAL CHEMICAL DEFENSE LIFE SUPPORT	N	33, 897	22, 353	17,390	17,040 U
96	63771A	ADVANCED TACTICAL COMMUNICATIONS TECHNOLOGY	0			1,461	1,502 U
26	63772A	ADV TACTICAL COMPUTER SCIENCE & TECHNOLOGY	Ø			13,674	12,288 U
98	E3773A	BATTLEFIELD SUSTAINMENT	8			3, 342	4, 906 U
	ADVANC	ADVANCED TECHNOLOGY DEVELOPMENT		521,673	502,856	488,034	570, 433
66	12814A	SPECIAL PROGRAMS	ო				
100	12821A	CLASSIFIED PRØGRAM	ဗ				

DEPARTMENT OF THE ARMY FY 1987 R D T & E PROGRAM

EXHIBIT R-1

 \supset 16,824 U 12,841 U 38,016 U څ \supset \supset \supset \supset 1,929 U 40,830 U 52, 185 U \supset ° Б О Ш О 74,717 U 5,528 U 1,045 U 141,820 15,660 7,709 8,828 FY 1988 318,447 THOUSANDS OF DOLLARS DATE: 04 FEB 1986 3,189 173 17,210 48, 735 1,256 21,717 25, 307 10,477 10,848 735 44,420 38,635 42,681 29, 557 278,987 FY 1987 60,338 22,777 789 8,497 5,665 10, 151 988 61,315 7,833 20, 141 890 44,311 30,253 226,877 8,281 30,540 FY 1986 6,003 9,169 5,683 3,409 10,408 985 29, 275 24, 509 5,226 4,957 33, 998 51,575 27,074 220, 502 FY 1985 ACT က ADVANCED RØTØCRAFT TECHNÖLØGY INTEGRATIØN/LHX 4 APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY ADVANCED ANTI-TANK WEAPON SYSTEM (MEDIUM) TANK/FIGHTING VEHICLE AMMO DEVELOPMENT 33152A WORLDWIDE MILITARY CMD&CNT SYS INF SYS SMOKE MUNITIONS AND MATERIEL CONCEPTS ARMAMENT ENHANCEMENT INITATIVE (AEI) LETHAL CHEMICAL MUNITIONS CONCEPTS JOINT SURVIVABILITY INVESTIGATIONS ARTILLERY/MORTAR AMMG DEVELOPMENT LIGHT WEIGHT AIR DEFENSE SYSTEM NUCLEAR MUNITIONS AND RADIACS ANTI-TACTICAL MISSILE SYSTEM SURF-TO-SURF MSL ROCKET SYS I TEM NOMENCLATURE AIRDROP EQUIPMENT SYSTEMS WEAPONS AND AMMUNITION LANDMINE/BARRIER SYS MOBILE PROTECTED GUN AIR MOBILITY SUPPORT GREATER SLOPE PROGRAM 292 STRATEGIC PROGRAMS 63641A 63209A 63615A 63633A 63639A 63619A 63627A 63628A 63635A PROGRAM ELEMENT NUMBER 63215A 63225A 63612A 63217A 63220A 63302A 63303A 63323A 63604A 63608A LINE 119 120 118 113 114 115 116 117 108 109 110 111 112 103 104 105 106 107 102 101

PERCORANA PRODUCATION PR	PR	APPROPRIATION:	2040 A RESEARCH DEVELOPMENT TEST + EVAL,	ARMY			DATE: 04	04 FEB 1986
NUMBER		PREGRAM			f 	* 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	THOUSANDS O	
11,154 1,157 1,1	E S		ITEM NOMENCLATURE	1		FY 1986	FY 1987	FY 1988
63706A PHYSICAL SECURITY 4 1,800 4,397 2,339 3,274 63706A IDENTIFICATION-FRIEND OR FOE DEVELOPMENTS 4 13,670 18,479 20,373 5,678 63707A COMMUNICATIONS DEVELOPMENT 4 4,965 2,905 2,673 3,652 63711A AIRCRAFT SURVIVABILITY EQUIPMENT 4 22,949 37,266 42,122 22,605 63713A ARMY DATA DISTRIBUTION SYSTEM 4 26,465 22,633 16,912 22,124 63720A CHEMICAL-BIO DEFECTION WARN/SAMP MAT CONCEPTS 4 3,759 3,758 3,045 4,056 63720A CHEMICAL-BIO DEFECTION WARN/SAMP MAT CONCEPTS 4 3,759 3,784 4,056 63720A CHEMICAL-BIO DEFECTION WARN/SAMP MAT CONCEPTS 4 3,759 3,378 4,917 19,973 63720A CHEMICAL-BIO DEFECTION WARN/SAMP MAT CONCEPTS 4 3,759 3,271 3,144 63720A CHEMICAL-BIO PRETECTION WARN/SAMP MAT CONTROL 4 15,011 25,148 24,285 14,180 63720A CHEMICAL-BIO PRETECTION WARN/SAMP MAT CONTROL 4 15,011 25,148 24,285 14,180 63720A CHEMICAL-BIO-PRETIAL MATERIAL M	_	63702A		4	5, 537	11,154	8,017	15, 109
63704A IDENTIFICATION-FRIEND OR FOED EVELOPHENTS 4 965 19,479 2,973 3,652 63711A AIRCRAFT SURVIVABILITY EQUIPMENT 4 965 2,965 2,975 3,652 63713A ARMY DATA DISTRIBUTION SYSTEM 4 26,465 22,633 16,112 63720A CHEMICAL-IDIO DETECTION MARM/SAMP MAT CONCEPTS 4 35,235 15,006 4,122 22,124 63720A CHEMICAL-BIO DETECTION MARM/SAMP MAT CONCEPTS 4 3,759 9,376 4,917 19,973 63720A CHEMICAL-BIO DETECTION MARM/SAMP MAT CONCEPTS 4 3,759 9,376 16,112 63720A RISSION ORTITICAL SOFTWARE 4 3,759 9,376 16,119 63720A RISSION ORTITICAL SOFTWARE 4 3,759 9,376 14,110 63720A RISSION ORTITICAL SOFTWARE 4 3,759 16,019 63720A RISSION ORTITICAL SOFTWARE 4 1,501 25,148 16,019 63720A RISSION ORTITICAL SOFTWARE 4 1,501 25,148 16,019 63720A RISSION ORTITICAL SOFTWARE 4 1,501 21,441 1,396 63720A RISSION ORTITICAL SOFTWARE 4 1,501 2,240 16,199 63720A RISSION ORTITICAL SOFTWARE 4 1,221 16,745 17,077 16,474 63720A RIGHE CHAN OND & ABN RADIO SYS (SINCGARS) AD 4 3,428 4,992 2,240 17,077 16,474 63720A RIGHE CHAN OND & ABN RADIO SYS (SINCGARS) AD 4 3,428 2,240 17,077 16,474 63720A RIGHE CHAN OND & ABN RADIO SYS (SINCGARS) AD 4 3,428 2,240 17,077 16,474 63720A RIGHE CHAN OND & ABN RADIO SYS (SINCGARS) AD 4 3,428 2,489 2,240 17,077 16,474 63720A RIGHE CHAN OND & ABN RADIO SYS (SINCGARS) AD 4 2,122 2,449 29,502 26,449 29,502 63720A RIGHE CHAN OND & ABN RADIO SYS (SINCGARS) AD 4 2,122 2,449 29,502 26,449 29	N	63705A	PHYSICAL SECURITY	4	1,800	4,397	2, 339	3,274
63713A ATRINCATIONS DEVELIGHMENT 4 4,965 2,905 2,673 3,656 63713A ATROCAGNINIOLATIONS YSTEM 4 9,090 8,128 4,568 16,170 63713A ARMY DATA DISTRIBULITY SOUCPTIBILITY 4 23,949 37,266 42,122 22,605 63720A CHECT WIFF VULNERABILITY/SUCEPTIBILITY 4 26,465 22,633 16,912 22,124 63720A CHEMICAL/BIO DETECTION WARN/SAMP MAT CONCEPTS 4 3,726 4,917 16,019 63720A CHEMICAL/BIO DETECTION WARN/SAMP MAT CONCEPTS 4 3,726 9,378 8,045 4,016 63720A CHEMICAL/BIO DETECTION WARN/SAMP MAT CONCEPTS 4 16,601 22,633 16,912 16,019 63720A CHEMICAL/BIO DETECTION WARN/SAMP MAT CONCEPTS 4 16,601 20,378 4,917 11,180 63726A CHEMAT RESURE SYSTEM 4 15,011 26,148 24,285 11,180 63720A TACTICAL SURVILLANGE COMMAND AND CONTROL 4 6,386 9,271 8,180<	(2)	63706A	LL	4	13,670	18,479	20,373	5,678
6 3711A AIRCRAFT SURVIVABILITY EQUIPHENT 4 3,090 6,126 4,588 16,170 6 3713A ARMY DATA DISTRIBUTION SYSTEM 4 23,949 37,266 42,122 22,635 6 3720A CHEDT WRFR VULNERABILITY/SUCEPTIBILITY 4 26,465 22,633 16,912 22,163 6 3720A CHEMICAL/BIO DETECTION WARH/SAMP MAT CONCEPTS 4 3,759 9,378 16,912 22,163 6 3720A CHEMICAL/BIO DETECTION WARH/SAMP MAT CONCEPTS 4 16,601 3,759 9,378 16,912 22,124 6 3720A CHEMICAL/BIO DETECTION WARH/SAMP MAT CONCEPTS 4 16,601 3,759 9,378 4,917 16,019 6 3720A CHEMICAL/BIO PORTICAL WATERIEL CONCEPTS 4 15,011 22,148 3,045 4,056 14,180 6 3720A COMBAT SUPPORT EQUIPMENT 4 15,011 21,441 11,396 14,180 11,396 11,396 11,396 11,396 11,396 11,396 11,396 11,396 11,396 11,396 11,396 11,39	4	63707A	COMMUNICATIONS DEVELOPMENT	4	4,965	2,905	2,673	3,652
63713A ARMY DATA DISTRIBUTION SYSTEM 4 23,949 37,266 42,122 22,635 63716A ELECT WRFR VULNERABILITY/SUCEPTIBILITY 4 26,465 22,633 16,912 22,124 63720A CHEMICAL/BIO DETECTION WARM/SAMP MAT CONCEPTS 4 35,235 15,009 16,019 16,019 63720A CHEMICAL/BIO DETECTION WARM/SAMP MAT CONCEPTS 4 3,759 9,378 8,045 4,056 63720A CHEMICAL/BIO DETECTION WARM/SAMP MAT CONCEPTS 4 16,601 25,046 4,917 16,019 63720A CHEMICAL/BIO DETECTION WARM/SAMP MAT CONCEPTS 4 15,011 25,148 3,045 1,050 63720A COMBAT SUPPORT EQUIPMENT 4 15,011 25,148 24,285 14,180 63720A TACTICAL SURVEILLANCE SYSTEM 4 15,011 25,148 24,285 11,180 63720A TACTICAL SURVEILLANCE SYSTEM 4 6,336 9,271 8,189 11,180 63740A SHORT RANGE COUNDAINENT 4 5,083 4,807	ß	63711A	AIRCRAFT SURVIVABILITY EQUIPMENT	4	3,090	8, 128	4, 588	18,170
63720A CHEMICAL/BIO DETECTION WARN/SAMP MAT CONCEPTS 4 26,465 22,633 16,912 22,124 63720A CHEMICAL/BIO DETECTION WARN/SAMP MAT CONCEPTS 4 3,759 9,376 4,056 16,019 63720A CHEMICAL/BIO DETECTION WARN/SAMP MAT CONCEPTS 4 3,759 9,376 4,056 16,019 63720A MISSION CRITICAL SOFTWARE 4 16,601 25,148 4,917 19,973 63720A COMBAT SUPPORT EQUIPMENT 4 15,011 25,148 24,385 14,180 63730A COMBAT WEDICAL MATERIAL 4 15,011 25,148 24,285 14,180 6373CA COMBAT WEDICAL MATERIAL 4 6,336 9,271 8,189 15,265 6374CA SHORT RANGE AIR DEFENSE COMMAND AND CONTROL 4 5,083 4,807 15,265 6374CA METECROLOGIC EQUIPMENT DEVELOPMENT 4 3,519 2,240 15,707 6374CA SINGLE CHAN GND & ABN RADIO SYS (SINGGARS) AD 4 3,519 2,240 4,772 6,186	မွ	63713A	ARMY DATA DISTRIBUTION SYSTEM	4	23,949	37,266	42, 122	22, 605
63720A CHEMICAL/BIO DETECTION WARRYSAMP MAT CONCEPTS 4 35,235 15,006 4,056 16,018 <t< td=""><td>1</td><td>63718A</td><td>ELECT WRFR VULNERABILITY/SUCEPTIBILITY</td><td>4</td><td>26, 465</td><td>22, 633</td><td>16,912</td><td>22, 124</td></t<>	1	63718A	ELECT WRFR VULNERABILITY/SUCEPTIBILITY	4	26, 465	22, 633	16,912	22, 124
63721A CML BIO PROTECTIVE MATERIEL CONCEPTS 4 3,759 9,378 9,045 4,056 63725A MISSIGN CRITICAL SOFTWARE 4 16,601 25,48 4,917 19,973 63726A COMBAT SUPPORT EQUIPMENT 4 15,011 25,148 24,285 14,180 63726A COMBAT SUPPORT EQUIPMENT 4 15,011 25,148 24,285 14,180 63730A TACTICAL SURVEILLANCE SYSTEM 4 6,336 9,271 8,189 11,396 63740A SHORT RANGE AIR DEFENSE COMMAND AND CONTROL 4 6,336 9,271 8,189 11,396 63740A SHORT CECTRONIC SPT MEASURE SYS 4 5,063 4,807 16,189 15,265 63746A SINGLE CHAN GND & ABN RADIG SYS (SINGGARS) AD 4 3,519 2,240 4,722 6,196 63746A SINGLE CHAN GND & ABN RADIG SYS (SINGGARS) AD 4 3,519 4,392 4,722 6,196 63750A BOLDIER SUPPORT/SURVIVABILITY 4 3,428 4,392 4,722 6,196	ø	63720A	CHEMICAL/BIO DETECTION WARM/SAMP MAT CONCEPT		35, 235	15,008		16,019
63725A HISSION CRITICAL SOFTWARE 4 16,601 259 4,917 19,973 63726A REMOTELY PILOTED VEHICLES/DRONES 4 15,011 25,148 24,285 14,180 63726A COMBAT SUPPORT EQUIPMENT 4 15,011 25,148 24,285 14,180 63732A COMBAT SUPPORT EQUIPMENT 4 6,336 9,271 8,189 11,396 63740A SHORT RANGE AIR DEFENSE COMMAND AND CONTROL 4 6,336 9,271 8,189 15,265 63740A HATEGROLOGIC EQUIPMENT DEVELOPMENT 4 5,083 4,807 15,189 15,265 63746A SINGLE CHAN GND & ABN RADIG SYS (SINCGARS) AD 4 3,519 2,240 4,722 6,196 63746A SINGLE CHAN GND & ABN RADIG SYS (SINCGARS) AD 4 3,519 4,992 4,722 6,196 63750A BOLDIER SUPPORT/SURVIVABILITY 4 14,721 16,743 17,077 16,474 63750A BOLDIER SUPPORT/SURVIVABILITY 4 21,820 30,652 26,449 29,502	O	63721A	BIC PROTECTIVE MATERIEL	4	3, 759	9,378	8,045	4,058
63726A REMOTELY PILLOTED VEHICLES/DRONES 4 15,011 25,148 4,917 19,973 63726A COMBAT SUPPORT EQUIPMENT 4 15,011 25,148 24,285 14,180 63732A TACTICAL SURVEILLANCE SYSTEM 4 6,336 9,271 8,189 11,396 63732A COMBAT MEDICAL MATERIAL 4 6,336 9,271 8,189 11,396 63740A SHORT RANGE AIR DEFENSE COMMAND AND CONTROL 4 5,063 4,807 15,189 15,265 63741A METEGROLGGIC EQUIPMENT DEVELOPMENT 4 5,063 4,807 2,192 2,192 63746A SINGLE CHAN GND & ABN RADIO SYS (SINCGARS) AD 4 3,519 2,240 4,722 6,196 63747A SOLDIER SUPPORT/SURVIVABILITY 4 3,426 4,992 4,722 6,136 63750A DRUG AND VACCINE DEVELOPMENT 4 14,721 16,745 17,077 16,474 63751A MEDICAL DEFENSE AGAINST CHEM WARFARE 4 21,820 30,652 26,449 29,502	0	63723A		4	16, 601			
63726A COMBAT SUPPORT EQUIPMENT 4 15,011 25,148 24,285 14,180 63730A TACTICAL SURVEILLANCE SYSTEM 4 6,336 9,271 8,189 11,396 6373CA COMBAT MEDICAL MATERIAL 4 6,336 9,271 8,189 11,396 63740A SHGRT RANGE AIR DEFENSE COMMAND AND CONTROL 4 5,083 4,807 15,189 15,265 63745A METECROLOGIC EQUIPMENT DEVELCIPMENT 4 5,083 4,807 7,192 2,192 63745A SINGLE CHAN GND & ABN RADIG SYS (SINGGARS) AD 4 3,519 2,240 4,722 6,196 63745A SINGLE RANGE DEVELCIPMENT 4 14,721 16,745 15,474 63750A BRUG AND VACCINE DEVELCIPMENT 4 14,721 16,745 16,474 63750A BRUG AND VACCINE DEVELCIPMENT 4 21,820 30,652 26,449 16,474 63751A MEDICAL DEFENSE AGAINST CHEM WARFARE 4 21,820 30,652 26,449 77	_	63725A	REMOTELY PILOTED VEHICLES/DRONES	4		259	4,917	19,973
63730A TACTICAL SURVEILLANCE SYSTEM 4 E,134 21,441 11,396 11,366 12,182	Q	63726A	COMBAT SUPPORT EQUIPMENT	4	15,011	25, 148	24, 285	14, 180
63732A SHÖRT RANGE AIR DEFENSE COMMAND AND CONTROL 4 6,336 9,271 8,189 11,396 63740A SHÖRT RANGE AIR DEFENSE COMMAND AND CONTROL 4 10,000 16,189 15,265 63741A METEGRÖLGGIC EQUIPMENT DEVELOPMENT 4 5,083 4,807 2,192 63745A TAC ELECTRONIC SPT MEASURE SYS 4 3,519 2,240 4,722 6,196 63746A SINGLE CHAN GND & ABN RADIG SYS (SINCGARS) AD 4 3,428 4,992 4,722 6,196 63750A SCLDIER SUPPORT/SURVIVABILITY 4 14,721 16,745 17,077 16,474 63750A DRUG AND VACCINE DEVELCHMENT 4 21,820 30,652 26,449 29,502 63751A MEDICAL DEFENSE AGAINST CHEM WARFARE 4 21,820 30,652 26,449 29,502	6	63730A	TACTICAL SURVEILLANCE SYSTEM	4		21,441		
63740A SHÖRT RANGE AIR DEFENSE COMMAND AND CONTROL 4 10,000 16,189 15,265 63745A METEGRÖLGGIC EQUIPMENT DEVELOPMENT 4 5,083 4,807 2,192 2,192 63745A TAC ELECTRONIC SPT MEASURE SYS A 5,083 4,807 4,722 6,196 63746A SINGLE CHAN GND & ABN RADIG SYS (SINCGARS) AD 3,428 4,992 4,722 6,196 63750A DRUG AND VACCINE DEVELOPMENT A 14,721 16,745 17,077 16,474 63751A MEDICAL DEFENSE AGAINST CHEM WARFARE A 21,820 30,652 26,449 29,502	4	63732A	COMBAT MEDICAL MATERIAL	4	988 '9	9, 271	8, 189	11, 396
63741A METEGROL GGIC EQUIPMENT DEVELOPMENT 4 5,083 4,807 2,192 63745A TAC ELECTRONIC SPT MEASURE SYS 4 5,083 4,807 2,240 63746A SINGLE CHAN GND & ABN RADIG SYS (SINCGARS) AD 4 3,428 4,992 4,722 6,196 63747A SÖLDIER SUPPORT/SURVIVABILITY 4 14,721 16,745 17,077 16,474 63750A DRUG AND VACCINE DEVELOPMENT 4 21,820 30,652 26,449 29,502 63751A MEDICAL DEFENSE AGAINST CHEM WARFARE 4 21,820 30,652 26,449 29,502	ıo	63740A	COMMAND AND	4		10,000	16, 189	15, 265
63745A TAC ELECTRÓNIC SPT MEASURE SYS 4,807 4,807 4,807 6,196 63746A SINGLE CHAN GND & ABN RADIG SYS (SINCGARS) AD 4 3,519 2,240 4,722 6,196 63747A SÖLDIER SUPPORT/SURVIVABILITY 4 14,721 16,745 17,077 16,474 63750A DRUG AND VACCINE DEVELOPMENT 4 21,820 30,652 26,449 29,502 63751A MEDICAL DEFENSE AGAINST CHEM WARFARE 4 21,820 30,652 26,449 29,502	(0)	63741A	METEOROLOGIC EQUIPMENT DEVELOPMENT	4				2, 192
63746A SINGLE CHAN GND & ABN RADIO SYS (SINCGARS) AD 4 3,519 2,240 4,722 6,196 63750A DRUG AND VACCINE DEVELOPMENT 4 3,428 4,992 4,722 6,196 63750A DRUG AND VACCINE DEVELOPMENT 4 14,721 16,745 17,077 16,474 63751A MEDICAL DEFENSE AGAINST CHEM WARFARE 4 21,820 30,652 26,449 29,502	~	63745A	ELECTRONIC SPT MEASURE	4	5, 083	4,807		
63747A SÖLDIER SUPPORT/SURVIVABILITY 4 3,428 4,992 4,722 6,196 63750A DRUG AND VACCINE DEVELOPMENT 4 14,721 16,745 17,077 16,474 63751A MEDICAL DEFENSE AGAINST CHEM WARFARE 4 21,620 30,652 26,449 29,502	60	63746A	SYS (SINCGARS)	AD 4	3,519	2,240		
63750A DRUG AND VACCINE DEVEL©PMENT 4 14,721 16,745 17,077 16,474 63751A MEDICAL DEFENSE AGAINST CHEM WARFARE 4 21,820 30,652 26,449 29,502	ത	63747A	SØLDIER SUPPØRT/SURVIVABILITY	4	3, 428	4, 992	4,722	
63751A MEDICAL DEFENSE AGAINST CHEM WARFARE 4 21,820 30,652 26,449 29,502	0	63750A	DRUG AND VACCINE DEVELCPMENT	4	14, 721	16,745	17,077	
		63751A	DEFENSE AGAINST CHE	4	21,820	30,652	26, 449	
						a.		

EXHIBIT R-1 DATE: 04 FEB 1986

APPR	ROPRIATION	2040 A RESEARCH	¥			DATE: 04	DATE: 04 FEB 1986
 						THOUSANDS OF	DOLLARS
LINE	E ELEMENT NUMBER	ITEM NOMENCLATURE	ACT	FY 1985	F + 1	FY 1987	FY 1988 C
142	63754A	CLASSIFIED PROGRAM (ADV)	4				
143	63755A	TACTICAL ELECTRÓNIC COUNTERMEASURES SYSTEMS	4	44,957	78,091		
144	63757A	AIR DEFENSE ALTERNATIVES	4		30, 504	103,944	188,995 U
145	63766A	TACTICAL ELECTRONIC SURVEILLANCE SYS	4	9, 239	6, 735		
146	63767A	COMBAT SERVICE SUPPORT CONTROL SYS	4	190	969	4,608	5,318 U
147	63774A	NIGHT VISION SYSTEMS ADVANCED DEVELOPMENT	4			3, 307	10,045 U
148	64202A	AIRCRAFT WEAPONS	4	6,349	12, 527		Þ
149	64204A	AIR MOBILITY SUPPORT EQUIPMENT	4	5, 126	2, 583	4,418	4,832 U
150	64206A	UH-60 BLACKHAWK	4		16, 795		Þ
151	64207A	ADVANCED ATTACK HELICOPTER	4	27,682	9, 921	12, 931	6,083 U
152	64216A	AIRCRAFT PROPULSION SYSTEMS	4	19,975	69, 934	111,301	149,672 U
153	64217A	SYNTHETIC FLIGHT TRAINING SYSTEMS	4	17,242	7,673	10,680	9, 843 U
154	64218A	AIRDROP EQUIP DEVELOPMENT	4	4,036	3, 113	3, 281	3,848 U
155	64220A	ARMY HELICOPTER IMPROVEMENT PROG	4	25, 199	6,720		D
156	64223A	ADVANCED TECHNOLOGY LIGHT HELICOPTER SERIES	4				194, 445 U
157	64268A	AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM	Δ	11,046	15, 963		D
158	64306A	STINGER	4	5,000	23, 298	6, 252	5
159	64307A	PATRICT AIR DEFENSE MISSILE SYSTEM	4	61,072	50,832		>
160	64310A	HELIBÖRNE MISSILE-HELLFIRE	4	454	4,945		5
161	64313A	GRASS BLADE	4	15,646	10,747	6, 698	13,278 U
162	64314A	MULTIPLE LAUNCH RÖCKET SYSTEM	4	1,851			5

EXHIBIT R-1

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LINE	ELEMENT		! !	l 1 1	 	1	1
Ž		ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
163	64321A	JOINT TACTICAL FUSION PROGRAM	4	76,880	155, 209		
164	64324A	JOINT TACTICAL MISSILE SYSTEM-ARMY (JTACMS-A)	4	76,378	128, 426	88, 197	97, 719 U
165	64601A	INFANTRY SUPPORT WEAPONS	4	27,202	29, 113	26,044	5,773 U
166	64603A	NUCLEAR MUNITIONS	4	11,985	18,074		
167	64604A	MOBILITY	4		988	47,828	38,265 U
168	64608A	INFANTRY WEAPONS AND AMMUNITION	4				2,237 U
169	64609A	SMOKE MUNITIONS & MATERIEL	4	4,016	5,879	7,892	15, 162 U
170	64610A	LETHAL CHEMICAL MUNITIONS	4				20,879 U
171	64612A	COUNTERMINE AND BARRIERS	4	2,607	7,929	9,728	16,037 U
172	64616A	FIGHTING VEHICLE SYS	4	11,209			2
173	64619A	LANDMINE WARFARE	4	8,176	7,818	16, 755	11,813 U
174	64630A	M1A1 DEVELCPMENT PROGRAM	4	56, 803	18,717	3, 798	כ
175	64631A	FIELD ARTILLERY AMMUNITION	4	7,967	27,442	107, 275	84,479 U
176	64632A	105MM TANK AMMUNITION	4	146	1,574		
177	64633A	CACTUS PLANT	4				
178	64701A	COMM ENGINEERING DEV	4	7, 601	10,602	6,473	6,296 U
179	64702A	JT TACTICAL INFORMATION DISTRIBUTION SYSTEM	4	22, 764	12,105		כ
180	64704A	UNATTENDED GROUND SENSORS	4		494		כ
181	64705A	MCDULAR INTEGRATED COMM AND NAVIGATION SYS	4	8,282	4,957	8, 224	>
182	64706A	RADICLEGICAL DEFENSE EQUIPMENT	4	840	656		1,587 U
183	64709A	IDENTIFICATION FRIEND OR FOE EQUIPMENT DEV	4	1,255		9,871	18,976 U

EXHIBIT R-1

APPR	CPRIATION	2040 A RESEARCH DEVELO	¥			DATE: 04	
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S Z	NUMBER	ITEM NOMENCLAIURE	ACI	FY 1985	7 1 986	FY 1987	FY 1988 C
184	64710A	NIGHT VISIÓN DEVICES	4	8,072	14,456	21,944	29,998 U
185	64711A	AIRCRAFT SURVIVABILITY EQUIPMENT	4	14,043	21,662	19,934	17,743 U
186	64712A	ARMY COMMAND AND CONTROL SYSTEMS ENGINEERING	4	11,858	9,247	6,113	11,058 U
187	64713A	COMBAT FEEDING, CLOTHING AND EQUIPMENT	4	6,174	3,986	4,363	5,423 U
188	64714A	TACTICAL ELECTRICAL POWER SOURCES	4	9, 520	10,043	6,449	3,675 U
189	64717A	GENERAL COMBAT SUPPORT	4	17,644	14, 225	11,538	23,905 U
190	64718A	PHYSICAL SECURITY	4	6, 141	6,450	1,216	4,384 U
191	64722A	EDUCATION AND TRAINING	4	6,899	6, 531	4,378	7,273 U
192	64723A	SPECIAL PURPOSE DETECTORS	4	3,315	3,217	1,181	961 U
193	64724A	CML/BIC DETECTION WARNING & TRAINING MATERIEL	4	1,801	22,845	31,427	21,038 U
194	64725A	CHEM BIC PROTECTIVE MATERIEL	4	17,932	15, 524	10,550	27,631 U
195	64727A	COMMAND AND CONTROL	4	16, 166	5, 757	548	550 U
196	64730A	REMOTELY PILOTED VEHICLES	4	97,783	73,868	91,880	19,376 U
197	64735A	INFRARED TERMINALLY GUIDED SUBMUNITION	4			27,114	29,546 U
198	64740A	TACTICAL SURVEILLANCE SYSTEM	4	16, 494	17,703		
199	64741A	DIVISION AIR DEFENSE COMMAND AND CONTROL	4	18, 399	32,640	82,065	116,214 U
200	64746A	AUTOMATIC TEST EQUIPMENT DEVELOPMENT	4	7,923	17,915	12, 325	13,589 U
201	64750A	TACTICAL ELECTRONIC COUNTERMEASURES SYSTEMS	4	10, 487	34, 706		
202	64751A	SINGLE CHAN GND & ABN RADIO SYS (SINCGARS) ED	4	7,013	12, 735	13, 922	e, 709 U
203	64754A	CLASSIFIED PRØGRAM (ENG)	4				
204	64757A	MEDICAL CHEMICAL DEFENSE LIFE SPT MAT	4	3,485	7,587	9,204	11,756 U

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EXHIBIT R-1

APPR	APPROPRIATION:	PPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY	MY			DATE:	04 FEB 1986
	PROGRAM					THOUSANDS OF DOLLARS	1
L I NE		ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
205	64758A	DRUG AND VACCINE DEVELOPMENT	4	8,968	10,371	10, 563	10,845 U
206	64766A	TACTICAL ELECTRONIC SURVEILLANCE SYS	4	18, 121	11,134		
207	64770A	JÖINT SURVEILLANCE/TARGET ATTACK RADAR SYSTEM 4	Σ 4	50,000	43, 288	27,882	6, 197 U
208	64779A	JT INTEROP OF TAC CMD & CONT SYS (JINTACCS)	4	37,238	6,337	7,719	8,485 U
208	65710A	JT CB POINT OF CONTACT, TEST AND ASSESSMENT	4	2,345	2,373	6,249	6,541 U
210	23724A	HV ANTI-TANK ACSAULT WPN SYS (TOW)	4	11,873	11,693	12, 468	18, 938 U
211	23726A	ADV FIELD ARTILLERY TACTICAL DATA SYSTEM	4	29, 242	19, 765	40,444	67,205 U
212	23727A	MED ANTI-TANK ASSAULT WEAPON - DRAGON	4		2,470		Ξ
213	23730A	CHAPARRAL	4	17,911	17,452	5,627	2
214	23731A	SAM HAWK/HAWK IMP PROG	4	21,497	5, 149	10, 633	15,902 U
215	23735A	COMBAT VEHICLE IMPROVEMENT PROGRAM	4	120,110	72,234	79, 203	67,855 U
216	23739A	AN/TSG-73 MODIFICATIONS	4			9,671	13,887 U
217	23740A	MANEUVER CONTROL SYSTEM	4	21,869	8, 565	9, 401	14, 901.0
218	23741A	PROD IMPR VULCAN AIR DEF SYS	4	142			٥
219	23743A	155MM	4	27,712	25, 474	35, 726	50,164 U
220	23744A	AIRCRAFT MØDIFICATIÖNS	4	6,200			Ξ
221	23745A	EQUIPMENT UPGRADE	4	5,318	25,036	23, 343	6,462 U
222	23746A	PATRICT PRODUCT IMPROVEMENT PROGRAM	4			40, 221	50,248 U
223	23747A	HELLFIRE PRODUCT IMPROVEMENT PROGRAM	4			11,947	25, 301 U
224	23749A	MLRS PRODUCT IMPROVEMENT PROGRAM	4				650 U
225	23751A	SPECIAL OPERATIONS FORCES (SOF) EQUIPMENT	4			31,242	59, 644 U

		Ĺ	DEPARTI	DEPARTMENT OF THE ARMY FY 1987 R D T & E PROGRAM	ZAM	â	EXHIBIT R-1
APPR	OPRIATION:	DEVELOPMENT TEST + EVAL,	ARMY			DATE: 04	FEB 1986
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LINE	PRØGRAM ELEMENT NUMBER	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
226	23752A	AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM 4	SAM 4			14, 592	15, 977 U
227	28010A	JOINT TACTICAL COMMO PROGRAM (TRITAC)	4	40, 324	30, 233	17,401	20, 189 U
228	33145A	EUCOM C3 SYSTEMS	4	5, 501	1,938	1,078	1,316 U
	TACTICA	TACTICAL PROGRAMS		1, 726, 341	2,083,622	2,440,170	2,940,527
229	63712A	MAPPING AND GEODESY	Ŋ	3, 532	3, 186		2
230	64201A	AIRCRAFT AVIÖNICS	D	1,246	2,212	2,493	2,482 U
231	64716A	MAPPING AND GEODESY	D	3, 863	2, 227	11,473	9, 122 U
232	64778A	NAVSTAR GLÜBAL PÖS SYS (USER EQ)	D	13, 631	11,146	4,719	6,700 U
233	31307A	FØREIGN SCIENCE AND TECHNØLØGY CENTER	D				
234	31318A	HUMINT (CONTROLLED)	D				
235	31327A	TECHNICAL RECONNAISSANCE AND SURVEILLANCE	Ŋ				
236	31329A	EUCOM CSIC DESIGN	Ю				
237	31359A	SPECIAL ARMY PROGRAMS	Ð				
238	33111A	STRATEGIC ARMY COMMUNICATIONS (STARCOM)	R	1,062			5
239	33126A	LONG-HAUL COMMUNICATIONS (DCS)	ល	5, 542	4, 260	2,684	2,531 U
240	33142A	SATCOM GROUND ENVIRONMENT	ស	15,076	58,932	94, 478	104, 673 U
						PAGE A-12	

DEPARTMENT OF THE ARMY FY 1987 R D T & E PROGRAM

PPR	APPROPRIATION:	2040 A RESEAR	IKMY			מין היים	
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LINE	PROGRAM ELEMENT NUMBER	I TEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
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241	33401A	COMMUNICATIONS SECURITY (COMSEC)	ស	11,398	8,993	7,280	9, 187 U
	INTELL	INTELLIGENCE AND COMMUNICATIONS			97,770	130, 420	141,690
242	63315A	TARGET MISSILES	g	1,496	3,952	9, 731	12,924 U
243	63738A	NONSYSTEMS TRAINING DEVICES (NSTD) DEV	ω	200	4,842	3,869	4,826 U
244	63790A	NATO RESEARCH AND DEVELOPMENT	ø		24, 698	49,356	5
245	64715A	NON-SYSTEM THE DEVICES ENGR	ø	32, 922	47, 122	46,260	32, 062 U
246	64726A	METECROLOGICAL EQUIPMENT AND SYSTEMS	0	12,319	4,967	1,207	1,367 U
247	65201A	AVIATION ENGINEERING FLIGHT ACTIVITY	ω	10, 100	9,708	13,217	13,669 U
248	65301A	KWAJALEIN MISSILE RANGE	ω	166, 265	152,300	163,470	175, 793 U
249	65502A	SML BUSINESS INNOVATIVE RESEARCH	ဖ	16, 323			כ
250	65702A	SUPPORT OF DEVELOPMENT TESTING	ဖ	48,493	56, 404	50,444	59, 969 U
251	65706A	MATERIEL SYSTEMS ANALYSIS	ω	15,746	16,043	16, 966	17,932 U
252	65709A	EXPLCITATION OF FOREIGN ITEMS	Φ	3, 443	3, 535	3,984	4,468 U
253	65712A	SUPPORT OF OPERATIONAL TESTING	ø	54, 295	51,937	55, 745	64,739 U
254	65716A	THREAT SIMULATORS FOR TESTING	ဖ		32,601	34,279	33, 906 U
255	65717A	NUCLEAR SURVIVABILITY TESTING & ANALYSIS	ဖ			3,950	5, 553 U
256	65801A	PRGGRAM-WIDE ACTIVITIES	ဖ	92, 133	171,766	85, 484	93, 979 U
257	65802A	INTL COOPERATIVE RESEARCH AND DEV	ဖ	611	936	277	1,284 U
258	65803A	TECHNICAL INFO ACTIVITIES	9	5,750	6, 196	6,772	7,875 U
259	65804A	AMC MAJOR RANGES AND TEST FACILITIES	ω	324,825	357,120	207, 799	230, 412 U
260	65805A	MUNITIONS STANDARDZION EFFECTIVENESS & SAFETY	TY 6	7,145	11,367	11,610	11,609 U
					α.	PAGE A-13	
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EXHIBIT R-1

21,471 U · 30,145 U 15,548 U 214,054 U 211,115 U 11,582 U FY 1988 C 13,170 U 6, 305, 634 1,289,452 THOUSANDS OF DOLLARS DATE: 04 FEB 1986 5, 550, 300 174,536 11,244 29, 105 1,266,772 FY 1987 20,729 9, 194 53,893 202, 951 PAGE A-14 19,940 12,018 1,099,150 4,841,472 FY 1986 20,747 90,951 4, 305, 185 FY 1985 11,855 92, 356 971,309 32,811 41,921 ACT 9 S 9 9 ø 9 9 APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY RDTE SUPPORT FOR NON-DEVELOPMENTAL ITEMS DOD HIGH ENERGY LASER SYSTEMS TEST FAC REAL PROPERTY MAINTENANCE (RDT&E) RESEARCH DEVELOPMENT TEST + EVAL, ARMY 65898A MGT HQ (RESEARCH/DEVELOPMENT) I TEM NOMENCLATURE PRODUCTIVITY INVESTMENTS 78011A INDUSTRIAL PREPAREDNESS BASE OPERATIONS (RDT&E) DEFENSEWIDE MISSION SUPPORT 65896A PRØGRAM ELEMENT NUMBER 65894A 65806A 65810A 65872A TOTAL LINE 262 263 264 265 266 267 261

EXHIBIT R-1	DATE: 04 FEB 1986	THOUSANDS OF DOLLARS
DEPARTMENT OF THE NAVY FY 1987 R D T & E PROGRAM		

		0000	EV 1087	FV 1988
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SUMMARY RECAP OF RESEARCH CATEGORIES				
	340.246	365, 398	388, 839	416,034
RESEARCH	451, 154	470, 189	462,209	501,980
EXPLORATION DEVELORMENT	1.974, 839	2, 501, 558	2, 140, 686	2, 379, 312
ADVANCED DEVELOTIENT	4, 253, 517	4, 467, 430	5, 157, 533	4,677,994
MANAGEMENT AND SUPPORT	606, 419	574,098	586, 189	670,626
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1		
PESEABCH AND DEVELOPMENT (FYDP PROGRAM 6)	7,626,175	8, 378, 673	8, 735, 456	8,645,946
OPERATIONAL SYSTEMS DEVELOPMENT	1,444,731	1,698,266	1,851,344	1,857,653
	906 020 6	10.076.939	10, 586, 800	10,603,599
IOIAL RESEARCH DEVELOPMENT TEST : LVAL				
IF BU				
	791.400	835, 587	851,048	918,014
TECHNOLOGY BASE	112 368	118.764	196,272	294, 369
ADVANCED LECHNOLOGY DEVELORMENT	2.261.933	2,386,068	2,001,046	1,576,859
STRALEGIC PROGRAMS	4. 748, 013	5, 375, 213	6,035,049	6, 191, 443
ACTICAL TROGRAMMINITOR TIME	421, 467	580, 556	695, 030	765, 499
INTELLIGENCE AND CONTONICATIONS	735, 725	780, 751	808, 355	857, 415
DEFENSE TO		1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, NAVY	9,070,906	10,076,939	10, 586, 800	10, 603, 599
SUMMARY RECAP OF FYDP PROGRAMS				
	226 473	247.931	309,885	318,728
STRATEGIC FORCES	847.402	863, 565	872,068	867,916
GENERAL PURPOSE FORCES	320.538	535, 593	638,072	734, 794
INTELLIGENCE AND COMPONICATIONS	7 626 175	8.378.673	8, 735, 456	8,645,946
RESEARCH AND DEVELOPMENT (FYUF PROGRAM 8)	50,318	51,177	31,319	36,215
CENTRAL SOUTE, AND TAINING	1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1
WAST - FORTH PROPERTY OF THE PARTY OF THE PA	900 020 0	10.076.939	10, 586, 800	10, 603, 599

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DEPARTMENT OF THE NAVY

APPROPRIATION: PROGRAM LINE ELEMENT NO NUMBER 1 61103N	AT I ON:	1319 N RESEARCH DEVELOPMENT TEST + EVAL, NAVY	2			DATE: 04	04 FEB 1986
LINE ELE NG NUR 1 61	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
LWZ	1		ı	! ! ! ! ! !		THOUSANDS OF DOLLARS	
	PROGRAM ELEMENT NUMBER	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
	61103N	UNIVERSITY RESEARCH	-		6,245	12,068	24,142 U
	61152N	INHOUSE IND LAB RSRCH	-	24, 433	26, 221	26,918	27,983 U
3 61	61153N	DEF RESRCH SCIENCES		315, 813	332, 932	349,853	363, 909 U
4 62	62111N	AAW/ASUW TECHNOLOGY	-	69, 790	77,416	75, 244	82, 114 U
5 62	62113N	ELECTRÓNIC WARFARE TECHNÓLÓGY	-	12,403	15, 360	13,946	15, 368 U
9	62121N	SURFACE SHIP TECHNOLOGY	-	18,021	13,047	13,515	17,133 U
7 62	62122N	AIRCRAFT TECHNOLOGY	-	24,966	23, 621	21,111	24, 219 U
8 62	62131M	MARINE CORPS AIR-GROUND TECHNOLOGY	-	19, 184	14, 461	17,628	19,385 U
6	62232N	COMMAND, CONTROL & COMMUNICATIONS TECHNOLOGY	-	20, 473	18,843	20,242	26, 222 U
10 62	62233N	MISSION SUPPORT TECHNOLOGY	-	36, 730	37,671	34,238	33, 157 U
11 62	62234N	SYSTEMS SUPPORT TECHNOLOGY	-	70,979	67,668	65, 799	75,710 U
12 62	62314N	ASW TECHNOLOGY	-	74,602	84, 763	90,060	87, 647 U
13 62	62315N	MINE & SPECIAL WARFARE	-	9,879	12, 179	14,038	16,253 U
14 62	62323N	SUBMARINE TECHNOLØGY	-	12,305	14, 549	12, 441	13,440 U
15 62	62324N	NUCLEAR PROPULSION	-	47,845	52,026	43,876	48,046 U
16 62	62435N	CCEAN & ATMOSPHERIC SUPPORT TECHNOLOGY	-	21,548	24,412	25, 354	27,425 U
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DEPARTMENT OF THE NAVY FY 1987 R D T & E PROGRAM

			DEPARTMENT FY 1967 R D	ENT OF THE NAVY O T & E PROGRAM	АМ	EX	EXHIBIT R-1
APPR	CPRIATION:	LOPMENT TEST + EVAL,	NAVY			DATE: 04	
1				1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
LINE	PROGRAM ELEMENT NUMBER	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
17	62936N	INDEPENDENT EXPLORATORY DEVELOPMENT	-	12, 429	14, 173	14,717	15, 861 U
	TECHNOLOGY	LØGY BASE		791, 400	835, 587	851,048	918,014
18	63202N	AVIÖNICS	N	1,900	1,735	3,858	3,861 U
9	63210N	ADV AIRCRAFT PROPULSION SYS	Ø	3,997	2, 995	6, 638	8,555 U
20	63217N	ADV A/C SUB SYSTEMS	0	4,938	8,464	7,944	22, 249 U
21	63269N	NATIONAL AEROSPACE PLANE	N			25, 527	52,098 U
22	NE0869	ERASE SYS TECH	N	4,857	9, 901	6,486	9, 931 U
23	6330BN	A/S-A/A MSL TECH	N	2,826			Ė
24	63508N	SHIP PROPULSION SYSTEM	Ø	42, 765	30, 302	22, 474	38, 713 U
25	63526N	ADV COMP TECH	N	9,712	10, 536		2
26	63560N	SUBMARINE HULL ARRAY DEV (ADV)	N	12, 592	7,623	8,891	3,932 U
27	63573N	ELECTRIC DRIVE	N		9,641	9,816	21,328 U
28	63701N	HUMAN FACTORS ENG (HFE)	N	1,808	2,088	3,964	6,276 U
29	63706N	MEDICAL DEVELOPMENT	N	10,785	12,442	16, 700	16,872 U
30	63707N	MNPWR & PERSONNEL SYS	0	2,602	3, 569	6,658	8,652 U
31	63712N	GENERIC LUGGISTICS R&D TECH DEMO	0		5,000	21,236	32, 136 U
32	63720N	EDUCATION AND TRAINING	0	3, 458	2,955	6, 536	10, 783 U
33	63732M	ADV MANPWR TRNG SYS	N	2,838	2, 933	1,837	2,886 U
34	NEEZE9	SIMU & TRAINING DEVICES	N	7, 290	7,826	8,218	9,605 U
35	63739N	NAVY LØGISTICS PRØDUCTIVITY	N		754	934	3,385 U
36	63747N	ADV ASW TECH	N			25, 063	20,761 U

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DEPARTMENT OF THE NAVY FY 1987 R D T & E PROGRAM

EXHIBIT R-1

TECH NOMENCLATURE ACT FY 1985 FY 1986 FY 1987 FY 1986 FY 1987 FY 1988 CED TECHNOLOOY DEVELOPMENT 112,368 118,764 196,272 22,346 16,039 SSBN SURVIVABILITY 3 1,300 2,703 7,308 16,039 SSBN SURVIVABILITY 3 2,010,614 2,104,376 1,632,666 1,179,773 7,308 FL DEM SURVIVABILITY 3 3,320 3,212 3,914 4,005 7,308 FL DEM SURVIVABILITY 3 3,200 3,212 3,914 4,005 7,308		0000					THOUSANDS OF DOLLARS	
6936AN ADV TECH TRANSITION 2 112,368 116,764 13,482 22,346 6936AN TACT SPACE OPERATIONS 3 112,368 116,764 156,272 22,368 6936AN TACT SPACE OPERATIONS 3 11,900 2,104,376 1,602,866 1,179,773 6936AN SABLIT SECURATION 3 2,101,614 2,104,376 1,632,866 1,179,773 6936AN TRIDENT II 3 2,010,614 2,104,376 1,632,866 1,179,773 6536AN TRIDENT II 3 2,010,614 2,104,376 1,632,866 1,179,773 1122AN SEBN SEC TECH PROGE 3 3 3,320 3,212 3,914 4,095 1122AN TELLITE LALSTC MIS SYS 3 3 3,162 3,017 4,095 1122AN TELLIS MIS MECO COMM 3 2,016 3,015 4,095 3,175 1142AN NAV STRATEGIC COMM 3 1,467 1,617 362 1,736 3,175 1142AN	NO		ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
6345IN TACT SPACE OPERATIONS 3 112,368 118,764 196,272 284,385 6336BN SSBN SURVIVABILITY 3 1,900 2,703 7,308 6336BN SSBN SURVIVABILITY 3 3,320 5,875 4,900 6373BN WHICCS ARCHITECTURE SUPPT 3 2,010,614 2,104,376 1,632,866 1,179,773 6374BN MARICS ARCHITECTURE SUPPT 3 2,010,614 2,104,376 1,632,866 1,179,773 6374IN SATELLITE LASER COMM 3 2,010,614 2,104,376 1,632,866 1,179,773 6366NN STRAT TECH SUPPORT 3 2,010,614 2,104,376 40,222 3,914 4,095 1122AN SSBN SEC TECH PROG 3 47,622 36,586 54,739 70,893 1142AN TRIDENT 3 32,196 36,196 51,753 70,893 1142AN SSBN SEC TECH PROG 3 32,196 36,196 51,753 70,893 1142AN MAYS STRATEGIC COMM	37	63792N		a			13, 492	22, 346 U
6345IN TACT SPACE OPERATIONS 3 14,002 22,506 16,038 6356N SSAN SURVIVABILITY 3 1,900 2,703 7,308 6373N WMCCS ARCHITECTURE SUPPT 3 3,320 5,875 4,900 6373N TRIDENT 3 2,104,376 1,632,866 1,179,773 6436N TRAT TECH SUPPORT 3 2,010,814 2,104,376 1,632,866 1,179,773 112ZAN TRAT TECH SUPPORT 3 3 3,953 3,212 4,092 112ZAN SSAN SEC TECH PROG 3 47,622 36,586 51,783 70,983 112ZAN SSAN SEC TECH PROG 3 32,196 36,196 51,783 70,983 112ZAN SSAN SEC TECH PROG 3 32,196 36,196 51,783 70,983 1142AN ANY STATEGIC COMM 3 20,262 36,286 13,286 31,794 1142AN ANY STATEGIC COMM 3 20,285 22,266 1,687 1,774		ADVANC	SED TECHNOLOGY DEVELOPMENT		1	1	1	1
63508N SSBN SURVIVABILITY 3 1,900 5,703 7,308 63735N WHMCCS ARCHITECTURE SUPPT 3 3,320 5,875 4,900 6373N ATELLITE LASER COMM 3 2,010,614 2,104,376 1,632,866 1,179,773 6505N TRAIT IECH SUPPORT 3 2,010,614 2,104,376 1,632,866 1,179,773 1122A SSBN SEC TECH PROG 3 47,622 36,588 20,778 40,222 59,274 1122AN SSBN SEC TECH PROG 3 47,622 36,588 51,783 40,222 1122AN SSBN SEC TECH PROG 3 20,226 36,196 54,739 70,883 1122AN SSBN SEC TECH PROG 3 20,222 36,589 51,783 70,883 1122AN SSBN SEC TECH PROG 3 20,222 36,589 51,783 71,793 1122AN AVY STRATEGIC COMM 3 1,467 1,615 1,453 1,584 1,774 3315AN MIS MODERNIZATION 3 <td>38</td> <td>63451N</td> <td>TACT SPACE OPERATIONS</td> <td>ဗ</td> <td></td> <td>14,002</td> <td>22, 506</td> <td>16,039 U</td>	38	63451N	TACT SPACE OPERATIONS	ဗ		14,002	22, 506	16,039 U
63735N WIMMOCS ARCHITECTURE SUPPT 3 1,900 63741N SATELLITE LASER COMM 3 3,320 5,104,376 1,032,866 1,179,773 64363N TRIDENT II 3 2,010,814 2,104,376 1,032,866 1,179,773 65856N STRAT TECH SUPPORT 3 2,010,814 2,104,376 4,022 59,274 11221N FLT BALLSTC MIS SYS 3 47,622 36,186 70,783 70,893 1122AN SSBN SEC TECH PROGE 3 47,622 36,186 71,783 70,893 1122AN SSBN SEC TECH PROGE 3 47,622 36,186 71,783 86,182 1142AN ANY STRATEGIC COMM 3 20,283 26,286 71,487 71,467 71,467 71,467 71,467 71,467 71,467 71,467 71,467 71,467 71,467 71,467 71,471 71,471 71,471 71,471 71,471 71,471 71,471 71,471 71,471 71,471 71,471 71,471 71,47	39	63588N	SSBN SURVIVABILITY	თ			2,703	7,308 U
63741N SATELLITE LASER COMM 3,320 5,975 64363N TRIDENT II 3 2,010,614 2,104,376 1,632,666 1,177 65856N STRAT TECH SUPPORT 3 2,010,614 2,104,376 1,632,666 1,177 11221N FLT BALLSTC MIS SYS 3 31,628 20,776 40,222 5 11224N SSBN SEC TECH PROG 3 47,622 36,588 54,739 7 11224N SSBN SEC TECH PROG 3 32,196 36,185 51,783 8 11224N SSBN SEC TECH PROG 3 47,622 36,186 51,783 7 11224N ATIBERT ATIBERT 3 36,186 36,186 16,826 16,826 11402N BANY STRATEGIC COMM 3 1,017 362,266 1,618 1,687 1,687 33152N MISECULAR MISERAL ALIONICS 3 1,467 1,618 2,001,046 1,557 63206N INTEGRATED ALIONICS 4 57,997 2,366,066 <td>40</td> <td>63735N</td> <td>WWMCCS ARCHITECTURE SUPPT</td> <td>ო</td> <td>1,900</td> <td></td> <td></td> <td>D</td>	40	63735N	WWMCCS ARCHITECTURE SUPPT	ო	1,900			D
64363N TRIDENT II 3 2,010,614 2,104,376 1,632,866 1,179,773 6986N STRAT TECH SUPPORT 3 3,959 3,212 3,914 4,095 11221N FLT BALLSTC MIS SYS 3 47,622 36,736 40,222 59,274 11224N SSBN SEC TECH PROG 3 47,622 36,736 51,783 50,893 11226N TRIDENT 3 47,622 36,196 51,783 50,893 11226N EXTRME LOW FREG COMM 3 20,253 28,256 18,296 3,173 11402N NAV STRATEGIC COMM 3 1,017 952 121,162 1,563 1,774 11402N NAV STRATEGIC COMM 3 1,017 952 1,687 1,563 1,774 33152N MECAN 3 1,017 952 1,687 1,567 1,567 1,567 1,576 1,576 1,576 1,576 1,576 1,576 1,576 1,576 1,576 1,576 1,576	4	63741N	SATELLITE LASER COMM	ო	3, 320		5,875	4, 900 U
65856N STRAT TECH SUPPORT 3 959 3, 212 3, 914 4,095 11221N FLT BALLSTC MIS SYS 3 31, 826 20, 778 40, 222 59, 274 11224N SSBN SEC TECH PROG 3 47, 622 36, 586 54, 739 70, 983 11224N TRIDENT 3 20, 253 28, 256 18, 296 70, 983 11401N EXTRME LOW FREG COMM 3 20, 253 28, 256 18, 296 3, 179 11402N NAVY STRATEGIC COMM 3 1, 017 952 14, 30 3, 175 12427N NAV STRATEGIC COMM 3 1, 407 1615 1, 563 1, 774 3315R NAVY STRATEGIC COMM 3 11, 407 952 1, 563 1, 774 3315R NAVY STRATEGIC COMM 3 11, 407 1, 615 1, 563 1, 756 3315R MIS MODERNIZATION 3 1, 407 1, 615 2, 001, 004 1, 576, 619 53206N ELECT W/F ADV. DEV. 4 <	45	64363N		ဗ	2,010,814	2,104,376	1,632,866	1,179,773 U
1122A FLT BALLSTC MIS SYS 3 31,628 20,778 40,222 59,274 1122AN SSBN SEC TECH PRGG 3 47,622 36,589 54,739 70,893 1122BN TRIDENT 3 47,622 36,195 51,783 70,893 1122BN TRIDENT 3 20,253 28,256 18,296 3,179 1140N EXTRME LOW FREQ COMM 3 20,253 28,256 18,296 3,179 1140N ANY STRATEGIC COMM 3 1,017 952 1,563 1,774 1242N NAV SFASUR 3 1,467 1,615 1,563 1,774 3315N MECN 41,000 14,607 1,615 1,616 1,576 44,715 STRATEOIC PROBRAMS 3 1,467 1,615 2,01,046 1,576,659 STRATEOIC PROBRAMS 1 4 5,261,933 2,386,068 2,01,046 1,576,659 63206N ELECT W/F ADV. DEV. 4 5,399 6,730 7,52	43	65856N	STRAT TECH SUPPORT	m	3, 959	3,212	3,914	4,095 U
11224N SSBN SEC TECH PROG 3 47,622 36,195 54,739 70,832 1122BN TRIDENT 3 32,196 36,195 51,783 66,182 11401N EXTRME LOW FREG COMM 3 20,253 28,256 18,296 3,179 11402N NAVY STRATEGIC COMM 3 93,557 121,162 143,282 97,426 12427N NAV SFASUR 3 1,017 952 1,563 1,774 33131N MECN 33131N MECN 1,615 1,687 1,567 1,575 33152N WIS MODERNIZATION 3 1,467 1,615 2,01,046 1,576,659 STRATEGIC PROGRAMS 3 2,261,933 2,386,066 2,01,046 1,576,659 63109N INTEGRATED A/C AVIGNICS 4 57,997 54,060 2,01,046 27,460 63207N AIR/GCEAN TACT. APPLIC. 4 57,997 6,730 7,522 10,676	4	11221N	FLT BALLSTC MIS SYS	ო	31,828	20, 778	40, 222	59, 274 U
11226N TRIDENT 3 32,196 36,195 51,783 86,182 1401N 20,253 26,256 16,296 3,179 3,179 11402N NAVY STRATEGIC COMM 3 20,253 121,162 143,282 37,426 1,774 1,774 1,201	45	11224N	SSBN SEC TECH PROG	ო	47,622	38, 588	54, 739	70,893 U
11401N EXTRME LOW FREQ COMM 3 20,253 28,256 18,296 3,173 11402N NAVY STRATEGIC COMM 3 1,017 93,557 121,162 143,282 97,426 12427N NAV STRATEGIC COMM 3 1,017 952 1,563 1,774 33131N MECN 3 1,467 1,615 1,687 1,301 33152N WIS MODERNIZATION 3 1,467 1,615 1,563 1,576,859 33152N WIS MODERNIZATION 3 1,467 1,615 1,576,859 1,576,859 53109N INTEGRATED A/C AVIONICS 4 57,997 54,039 2,386,068 2,001,046 1,576,859 63206N ELECT W/F ADV. DEV. 4 6,663 6,730 7,522 10,676 63207N AIR/OCEAN TACT. APPLIC. 4 6,663 6,730 7,522 10,676	46	11228N	TRIDENT	ო	32, 196	38, 195	51,783	86, 182 U
11402N NAVY STRATEGIC COMM 3 93,557 121,162 143,282 97,426 12427N NAV SPASUR 3 1,017 952 1,563 1,774 33131N MECN 3 1,467 1,615 1,687 1,301 33152N WIS MODERNIZATION 3 14,932 2,1,610 44,715 STRATEOIC PROGRAMS 2,261,933 2,386,066 2,001,046 1,576,859 63109N INTEGRATEC A/C AVIGNICS 4 57,997 54,039 54,460 63206N ELECT W/F ADV. DEV. 4 6,663 6,730 7,522 10,676	47	11401N	EXTRME LOW FREG COMM	ဗ	20, 253	28, 256	18, 296	3,179 U
12427N NAV SPASUR 3 1,017 952 1,563 1,774 33131N MEECN 3 1,467 1,615 1,567 1,301 3315ZN WIS MODERNIZATION 3 14,000 14,932 21,610 44,715 STRATEOIC PROGRAMS 2,261,933 2,386,066 2,001,046 1,576,859 63109N INTEGRATED A/C AVIONICS 4 57,997 54,039 39,294 54,460 63206N ELECT W/F ADV. DEV. 4 6,663 6,730 7,522 10,676	48	11402N	NAVY STRATEGIC COMM	ø	93, 557	121,162	143, 282	97,426 U
3315ZN WIS MÖDERNIZATIÖN 33 14,000 14,932 21,610 2,261,933 2,386,068 2,001,046 1,5 STRATEGIC PRÖGRAMS 63109N INTEGRATED A/C AVIÖNICS 63207N AIR/ÖCEAN TACT. APPLIC. 4 6,663 6,730 7,522 DINOCLASSIFIED 1,615 1,687 2,1,610 2,21,610 2,001,046 1,56 1,56 2,001,046 1,56 1,56 2,001,046 1,56 2,001,046 1,56 2,001,046 1,56 2,001,046	9	12427N	NAV SPASUR	m	1,017	952	1,563	1,774 U
33152N WIS MODERNIZATION 3 14,000 14,932 21,610 2,261,933 2,386,068 2,001,046 1,5 2,261,933 2,386,068 2,001,046 1,5 2,261,933 2,386,068 2,001,046 1,5 2,00	20	33131N	MEECN	6	1,467	1,615	1,687	1,301 U
### STRATEGIC PROGRAMS ### STRATEGIC PROGRAMS #### ST,997 #### ST,997 ##################################	21	33152N	WIS MODERNIZATION	ო	14,000	14,932	21,610	44,715 U
63109N INTEGRATED A/C AVIONICS 4 57,997 54,039 39,294 63206N ELECT W/F ADV. DEV. 4 57,997 54,039 39,294 63207N AIR/GCEAN TACT. APPLIC. 4 6,663 6,730 7,522		STRATE	EGIC PROGRAMS		2, 261, 933	2, 386, 068	2,001,046	1,576,859
63206N ELECT W/F ADV. DEV. 4 57,997 54,039 39,294 63207N AIR/GCEAN TACT. APPLIC. 4 6,663 6,730 7,522 UNCLASSIFIED PAGE N-3	52	63109N	INTEGRATED A/C AVIONICS	4			22, 484	27,818 U
63207N AIR/GCEAN TACT. APPLIC. 4 6,663 6,730 7,522 UNCLASSIFIED	53	63206N	ELECT W/F ADV. DEV.	4	57,997	54,039	39, 294	54, 460 U
PAGE	54	63207N	AIR/GCEAN TACT. APPLIC.	4	6, 663	6,730	7,522	10,676 U
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126,804 U 26, 766 U 28,506 U 94,579 U 4,685 U 5,281 U 4,522 U 8,270 U 74, 236 U 15, 109 U 27,705 U 22, 287 U 9,849 U 22, 569 U 492 U 5 \Rightarrow 17,911 U FY 1988 THOUSANDS OF DOLLARS DATE: 04 FEB 1986 EXHIBIT R-1 FY 1987 11,565 9,834 4,255 5,547 9, 131 245 79,728 14,704 13,746 22,678 134, 163 143,256 18,042 19,054 42,409 4,377 7,720 3,977 9,891 21,692 25,000 17,452 74,828 22,415 FY 1986 115,986 3,999 4,625 557, 326 12,575 1,371 236,051 2,207 13,622 2,380 26, 989 51,064 29, 519 6, 252 15,306 8,663 10,655 7,290 7,674 1,081 250 5,144 FY 1985 67,512 177,270 5,240 58,727 19,609 ACT APPROPRIATION: 1319 N RESEARCH DEVELOPMENT TEST + EVAL, NAVY LOW COST ANTI-RADIATION SEEKER ITEM NOMENCLATURE ADV AIR-AIR SURF-AIR MSL ADV AIRCFT ARMAMENT SYS ACCUSTIC SEARCH SENSORS ACFT SURVIV/VULNERABLTY AIRBRNE LIFE SUPT SYS ABN MINE CNTRMEASURES ADV. AIR-TO-SURF MSL. SUB ASW STANDOFF WPN AIRCRAFT SYSTEMS RETRACT YELLOW TAC AIR RECONN CV ASW MODULE NAVAL AIRSHIP IRR MAVERICK SURFACE MCM T-45/TS AIR ASW BGAAWC A-6F XX5 PRØGRAM ELEMENT NUMBER 6320BN 63216N 63219N 63228N 63251N 63254N 63256N 63257N 63259N 63260N 63261N 63262N 63268N 63306N 63382N 63502N 63318N 63313N 63315N 63320N 63367N LINE 22 56 58 59 9 62 63 64 65 99 67 68 69 70 72 73 74 57 7 61

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DEPARTMENT OF THE NAVY FY 1987 R D T & E PROGRAM

			FY 1987 R D	D T & E PROGRAM	RAM		EXHIBIT R-1
PPR	APPROPRIATION:	: 1319 N RESEARCH DEVEL OPMENT TEST + EVAL,	AL, NAVY			DATE: 04	FEB 1986
	MAGGGG				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	THOUSANDS OF DOLLARS	1
LINE		ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
92	63504N	SUB SGNAR DEV	4	13,946	11,010	11,109	10,702 U
17	63506N	SURF-SHIP TORPEDO DEFNS	4	26,957	36, 207	36, 908	33, 303 U
78	63509N	SHPBD INFO TRANSFER SYS	4	4, 358			>
79	63512N	CATAPULTS	4				7,568 U
80	63513N	SHIPBRD SYS COMPNT DEV	4	13, 192	15, 145	14,917	18,959 U
81	63514N	SHIPBRD DAMAGE CONTROL	4	18,662	23, 400	41,861	46,306 U
82	63519N	ADV COMMAND DATA SYS	4	5, 960			Σ
83	63522N	SUB ARCTIC WF/SPT EQUIP PROG	4	9,672	9,445	2,946	3,142 U
84	63525N	PILOT FISH	4	119, 231	93, 964	75,248	62,012 U
85	63527N	RETRACT LARCH	4				20,053 U
98	63528N	NONACOUSTIC ASW	4	22, 204	21,604	26, 139	24, 216 U
87	63529N	ADV ASW TARGET	4	12, 925	9,142	10, 282	17, 204 U
88	63532N	SHIP SYS ENGR STDS	4	4,080	2,700		5
83	63536N	RETRACT JUNIPER	4	13, 703	21,159	28,935	36,837 U
90	63542N	RADIOLGGICAL CONTROL	4	1,659	2,140	2,592	3,005 U
91	63550N	LINK DØGWØØD	4	19,687	25, 247	3,931	Ξ
92	63553N	SURFACE ASW	4	17, 252	16,728	23,168	31, 239 U
66	63561N	ADV SUB SYS DEVELOPMENT	4	144, 551	169,318		Σ
94	63562N	SUB TAC WARFARE SYS	4	. 17,555	23,118	10,689	9,344 U
92	63564N	SHIP DEVELOPMENT	4	13,989	13, 562	21,606	34,425 U
0	10000						

8,246 U

6,675

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63585N SURFACE SHIP NAVSYS

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DEPARTMENT OF THE NAVY FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPR	OPRIATION	APPROPRIATION: 1319 N RESEARCH DEVELOPMENT TEST + EVAL, NAVY	AL, NAVY			DATE: 04	04 FEB 1986
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LINE				1	3 1 1 1 1 1 1 1 1 1 1 1		
NG	NUMBER	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
97	63569N	ATTACK SUBMARINE DEV	4	21,100	31,502	3, 931	3, 936 U
98	63570N	ADV NUC REACTOR COMP SYS DEV	4	70,803	120, 175	96,037	89,157 U
66	63571N	PHYSICAL SECURITY	4	5, 093	3, 690	7,686	8, 533 U
100	63576N	CHALK EAGLE	4	51,912	68, 783	79, 351	87,338 U
101	63578N	A4W/AIG NUC PROP PLANT	4	5, 705	3, 327	3,410	3, 936 U
102	63582N	COMBAT SYS INTEGRATION	4	20, 436	21,962	24,051	25, 860 U
103	63589N	DDG-51	4	118,315			D
104	63591N	JOINT ADVANCED SYSTEMS	4	107,656		78,680	9,053 U
105	63592N	SEA STAR	4				2,457 U
106	63601N	MINE DEVELOPMENT	4	665	4,436	14,836	26, 450 U
107	63602N	CHALK PINE	4			43,711	115,306 U
108	63609N	CONVENTIONAL MUNITIONS	4	12, 233	21,924	40,882	39, 285 U
109	63610N	ALWT (ADV)	4	3,140		7,434	11,749 U
110	63611M	MC ASSAULT VEHICLES	4	14, 499	10,407	11,005	13, 321 U
111	63634N	TAC NUCLEAR WEAPON DEV	4	7,012	7,760	15, 151	22, 214 U
112	63635M	MC GRD COMBAT/SPT SYS	4	5,741	13, 126	18,249	12, 252 U
113	63654N	JT SERV EXPL ORDN DEV	4	7,110	12,577	14, 791	13, 402 U
114	63702N	OCEAN ENG SYS DEV	4	1,627	1,349	1,417	1,393 U
115	63704N	ASW OCEANOGRAPHY	4	3,708	11,875	7,065	8,572 U
116	63705N	LOGISTICS	4	529			D
117	63708N	ASW SIGNAL PRÖCESSING	4	18, 171	13, 951	17,988	21,729 U
						PAGE N-6	
			2	INC. ASSIETED			

DEPARTMENT OF THE NAVY FY 1987 R D T & E PROGRAM

DATE: 04 FEB 1986 EXHIBIT R-1 APPROPRIATION: 1319 N RESEARCH DEVELOPMENT TEST + EVAL, NAVY

LINE FLEGERALY NO NUMBER 118 63709N ADV MARINE BIG SYSTEM 119 63711N FLEET TAC D&E PROGRAM 120 63713N CCEAN ENG TECH DEV 121 63717N COMMAND AND CONTROL SYS 122 63719N CONTAINER OFFLD/TRNSFR 123 63722N NAVAL SPECIAL WARFARE	ITEM NOMENCLATURE BIØ SYSTEM D&E PRØGRAM	HO V				о ш о
63711N 63711N 63717N 63719N 63722N	SYSTEM PROGRAM	2 :	FY 1985	FY 1986	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FY 1988 C
63711N 63713N 63717N 63722N	PROGRAM	4	6,382	5, 409	5, 385	6,870 U
63713N 63719N 63722N		4	5, 301	1,999	4,649	6,836 U
63717N 63719N 63722N	H DEV	4	17,233	13, 086	16, 373	17,800 U
63719N 63722N	SNTROL SYS	4	18,764	30,093	36, 525	21,476 U
63722N	D/TRNSFR. SYS	4	1,458	1,512	5,602	1,673 U
NV6753	WARFARE	4	8,114	6,716	15, 637	15, 259 U
N157/50	ROGRAM	4	20,001	18,310	16,833	18,828 U
125 63725N FACILITIES IMPROVEMENT	PROVEMENT	4	8, 899	7,258	9,476	10, 600 U
126 63726N MERSHIP NAV AUX PRØG	JX PROG	4	5,482	5, 737	6,014	5,039 U
127 63729M COMBAT SERVICES SUP (ADV)	S SUP (ADV)	4	8,387	9,341	15,857	21,986 U
128 63730M MC INTEL/ELC WAR SYS	IAR SYS	4	12,082	70		2
129 63734N CHALK CORAL		4	5,242	6, 139	14,694	3,641 U
130 63736N STRIKE WARFARE TECH	I TECH	4	739			D
131 63737N LINK HAZEL		4	45,700	23,064	37, 566	34,207 U
132 63740N LINK LAUREL		4	30,000	35, 345	47,088	75, 483 U
133 63743N ARIADNE		4		2, 185	11,240	15,278 U
134 63744N LINK SPRUCE		4	8,500	35,000	94, 272	170,165 U
135 63746N RETRACT MAPLE		4	5, 835	9,747	20, 782	33, 830 U
136 63763N NCCS SE&I		4	13, 542	7,172	12, 599	17,903 U
137 63784N ASW SURVEILLANCE	ICE	4	12, 397	17,393	25, 982	52, 661 U
138 63785N ASW ENVIRONMEN	ASW ENVIRONMENTAL ACCUSTIC SPT	4	8,680	15,680	12, 764	15,478 U
				_	PAGE N-7	

DEPARTMENT OF THE NAVY FY 1987 R D T & E PROGRAM

EXHIBIT R-1

2,990 U 5,512 U 82,404 U \supset ⊃ ШΟ \supset 32,814 U 55,412 U 10,604 U \supset 20,458 U 79, 669 U S 12,748 41,801 12, 131 37,272 FY 1988 DATE: 04 FEB 1986 THOUSANDS OF DOLLARS 96,877 8,062 19,712 3,294 55, 973 32, 492 15,644 19,947 23,449 11,084 48,639 2,266 FY 1987 41,466 19,432 20, 796 FY 1986 14,668 5,601 1,500 33,110 5,766 65,300 20, 105 15, 583 2,460 56,096 12,389 14,045 49, 532 17,141 11,333 1,918 1,207 19, 100 FY 1985 69, 519 61,308 33, 102 25, 349 24,944 42,072 36,007 6,045 16, 158 12,067 12,861 10,811 ACT APPROPRIATION: 1319 N RESEARCH DEVELOPMENT TEST + EVAL, NAVY STANDARD AVIONICS DEVELOPMENT I TEM NOMENCLATURE S-3 WEAPONS SYS IMPRVMNT ACFT IR SIGNATURE SUPPR P-3 MODERNIZATION PROG AV-8B AIRCRAFT (ENG) AIR OCEAN EQUIP ENG SPECIAL PROCESSES AIRBORNE ASW DEV CV IZ ASW HEL® SUPPORT EQUIP IFF SYS DEV ABN EW ENG. HELO DEV LAMPS ASPJ RDSS PROGRAM ELEMENT NUMBER 63787N 64203N 6378BN 64211N 64212N 64213N 64214N 64215N 64220N 64221N 64229N 64217N 64218N 64219N 64224N 64226N LINE 146 147 139 140 142 143 144 145 148 149 150 151 152 153 154 141

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58,832 U 483,087 U

386, 871

30,146

22,803

ACCUSTIC SRCH SENSORS (ENG)

64261N 64262N

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157

V-22

C/MH-53E

EW SIMULATOR DEVELOPMENT

A/C PROPULSION (ENG)

64252N 64255N 64250N

155

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58,125 U 8,749 U

3, 464

15,043

300 U

27,500

44,566

23, 774

35, 260

DEPARTMENT OF THE NAVY FY 1987 R D T & E PROGRAM

EXHIBIT R-1	DATE: 04 FEB 1986
FY 1987 R D T & E PROGRAM	EVELOPMENT TEST + EVAL, NAVY
FY 1987 R	EVAL, NAVY
	I DEVELOPMENT TEST + EVAL, NAVY
	1319 N RESEARCH
	APPRÖPRI AT I GN:

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L INE		ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
160	64264N	AVIATION LIFE SPT SYS	4	10,712	27,418	29, 705	31, 635 U
161	64268N	ACFT ENGINE COMPNT IMP	4	78, 262	61,534	65, 183	70,876 U
162	64301N	MK-92 FCS UPGRADE	4	15, 352	13, 154	7,808	12,716 U
163	64303N	AEGIS AREA AIR DEF	4	12,654	10,654	4,312	6,822 U
164	64307N	AEGIS WPN SYS IMP	4	41,415	121,742	134, 939	117,044 U
165	64308N	LINK ASH	4	14, 579	10,307	8,846	10,825 U
166	64309N	SEA LANCE	4			118,416	130,947 U
167	64314N	AMRAAM	4	7,869	4, 797	19,022	27,987 U
168	64352N	SUR LNCHD WEAPNRY SHIP SYS	4	482			כ
169	64353N	VERTICAL LAUNCHING SYS	4	39, 439	29, 141	20,388	22,278 U
170	64354N	AIR/AIR MSL SYS ENGR	4		18, 545	27,906	24,116 U
171	64355N	VLS ASRGC	4	30, 568	41,063	41,669	18,685 U
172	64358N	CLOSE-IN WPN (PHALANX)	4	3,737	4, 758	7, 493	11,683 U
173	64361N	NATO SEA SPARROW	4	6,167	2, 469	7,745	7,874 U
174	64365N	SM-2 (N)	4		2, 795	9, 229	15,040 U
175	64366N	STNDRD MISSILE IMPRVMNTS	4	31, 556	45, 453	45,988	75, 584 U
176	64367N	ТӨМАНАШК	4	71,935	61,987	68, 368	70,953 U
177	64369N	5 IN. ROLLING AIR FRM MSLE	4	47, 791	10,936	24,210	15, 121 U
178	64370N	SSN-688 CLASS VLS	4	28, 986	18, 495	18,344	14,608 U
179	64371N	HELLFIRE	4	2, 380			٦
180	64372N	NEW THREAT UPGRADE	4	47,832	53,882	50,899	36,337 U
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			2				

DEPARTMENT OF THE NAVY FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPR	APPROPRIATION:	1319 N RESEARCH DEVELOPMENT TEST +	EVAL, NAVY			DATE: 04	DATE: 04 FEB 1986
						THOUSANDS OF DOLLARS	1
LINE	PRØGRAM ELEMENT NUMBER	ITEM NOMENCLATURE	ACT	FY 1985	F 7 1986	FY 1987	FY 1988 C
181	64502N	SUBMARINE COMMUNICATIONS	4	4,018	4, 426	25, 979	19,745 U
182	64503N	SUBMARINE SONAR DEV	4	35, 303	38,904	52, 716	44,742 U
183	64504N	AIR CONTROL ENG	4	16,680	19, 788	9, 207	29,079 U
184	64506N	CW COUNTERMEASURES	4	6,073	6,079	7, 799	8,257 U
185	64507N	EMSP	4	61,199	93, 397	100,345	66,730 U
186	64508N	RADAR SURVEILLANCE EQUIP	4	10,115	6,318	9, 321	15,016 U
187	64510N	COMMUNICATION SYSTEMS	4	7, 284			D
188	64511N	INTELLIGENCE SYSTEMS	4	1,063	006		5
189	64515N	SUB SPT EQUIP PRGG	4	7, 333	13, 633	32, 265	35,784 U
190	64516N	SHIP SURVIVABILITY	4	4, 598	5, 883	9, 194	11,287 U
191	64518N	CMBT INFS CNTR CONVERSN	4	29, 266	29, 198	36,727	31,596 U
192	64520N	SUBMARINE HULL ARRAY DEV	4	11, 391	9, 488		כ
193	64524N	SUB COMBAT SYSTEMS	4	172,349	199, 508	316,649	277, 253 U
194	64561N	SSN-21 DEVEL@PMENT	4			256, 668	224, 921 U
195	64562N	SUB TACT WARFARE SYS	4	40,413	36, 559	47, 101	41,170 U
196	64563N	PHYSICAL SECURITY (ENG)	4	2, 328	3, 601	9,015	9,543 U
197	64567N	SHIP SUBSYS DEV/LBTS	4	83, 569	107,356	18,822	28, 106 U
198	64569N	NATO SEA GNAT	4	1,784	2,284		ס
199	64573N	SHIPBD ELEC WARFR IMPRV	4	37,816	61,925	51,932	54,573 U
200	64574N	STD EMBEDDED COMPUTER RSRCS	4	11,144	9, 160	32, 469	55,878 U
201	64575N	SQS-53C	4	49, 562	36, 269	26, 514	13, 239 U

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EXHIBIT R-1

DATE: 04 FEB 1986 APPROPRIATION: 1319 N RESEARCH DEVELOPMENT TEST + EVAL, NAVY

O \ T T T T T T T T T T T T T T T T T T						
	28, 631	23, 273	24,600	4	SURFACE W/F TRNG DEV	64715N
1,966 U	1,964		1,598	4	AIR W/F TRNG DEV	64714N
o 65,143 U	36, 860	7, 956		4	SURF ASW SYS IMP	64713N
9 41,916 U	53,029	48, 783	39, 169	4	NCCS ASHORE NODES	64711N
4 11,721 U	9,044	9, 788	11,078	4	NAVY ENERGY PRÖGRAM	64710N
1 88,535 U	84, 621			4	INITIAL TRAINERS ACQUISITION	64708N
5 31,547 U	22, 275			4	THEATER MISSION PLAN CTR	64707N
0 8,454 U	16, 600	5,826	5,000	4	CHALK BANYAN	64705N
2 1,389 U	1,162	506		4	ASW OCEANOGRAPHIC EQUIP	64704N
5 42,694	37,895	62,605	125, 948	4	MK 48 ADCAP (ENG)	64675N
1 16,343 U	12, 541	7,183	3, 166	4	MC GRND CMBT/SPT ARMS	64657M
		16,801	8,778	4	MC ASSAULT VEHCLE	64656M
0 5,667	5, 420	4,405	3, 999	4	JT SERV EOD DEV (ENG)	64654N
5 79, 795	148,825	157, 626	145,465	4	MK-50 TORP (ALWT)	64610N
1 14,992	14,711	5,617	7,819	4	BOMB-FUZE IMPR	64609N
6 16,150 U	21,156	38, 933	39, 422	4	SAL GP/EC SENS DEV	64608N
0	4,000	9' 000	5,110	4	CHEM WARFARE WEAPONS	64604N
5,818	5,626	4,619	4,162	4	UNGUID CONVL AIRLNCH WEP	64603N
8 21,529 U	17, 428	9,650	4,766	4	NAVAL GUNNERY IMPRÖVEMENT	64602N
0 15,174 U	13,740	9,048	10, 484	4	MINE DEVELOPMENT	64601N
7 5, 408	3,927	4,078	7,456	4	LINK BIRCH	64578N
FY 1988 C	FY 1987	FY 1986	FY 1985	ACT	ITEM NOMENCLATURE	LINE ELEMENT NO NUMBER

DEPARTMENT OF THE NAVY FY 1987 R D T & E PROGRAM

EXHIBIT R-1

PRODEARM PRODEARM	PPR	ROPRIATION	APPROPRIATION: 1319 N RESEARCH DEVELOPMENT TEST + EVAL,	L, NAVY			DATE: 04	04 FEB 1986
NUMBER NUMBER		1		1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
SUBL W/F TRNG DEV 4 461 COMBAT SERVICES SPT 4 4,382 3,638 5,465 MC INTEL/ELEC WAR SYS 4 4,764 14,140 9,546 1 MC CINTEL/ECWM SYS 4 23,432 13,361 16,005 1 TACAIR OPER CENT 8S 4 5,483 4 5,483 16,005 1 INTELLIGENCE (ENG) 4 31,570 56,216 40,971 1 1 INTELLIGENCE (ENG) 4 5,483 1,582 2,997 1 1 16,005 2,997 1 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 <th>NO</th> <th></th> <th>I TEM NOMENCLATURE</th> <th>1</th> <th>FY 1985</th> <th>1 1</th> <th>1 1</th> <th>FY 1988 C</th>	NO		I TEM NOMENCLATURE	1	FY 1985	1 1	1 1	FY 1988 C
64717M COMBAT SERVICES SPT 4 4,392 3,638 5,465 1 64718M PICTURE/LEC WAR SYS 4 4,784 14,140 9,546 1 64718M PICTURE/LEC WAR SYS 4 4,784 14,140 9,546 1 6472BM TACATE OPER CENT BS 4 5,493 16,005 6,040 6,460 6477BM TACATE OPER CENT BS 4 2,345 1,382 2,997 7 6477BM TACATE OPER CENG 4 4,716 6,040 6,460 7 6477BM TINTEROP TAC CMD/ONTRL 4 1,382 2,397 5,865 7 6477BM TINTEROP TAC CMD/ONTRL MG 4 1,382 1,668 3,471 7 65607N TINTEROP TAC CMD/ONTRL MG 4 1,382 1,668 3,471 7 65608N LEET TAC DEV/CWAL 4 4,105 2,572 5,942 7 6566SN INGMINI AND TECH SPT A 4,105 2,372 5,942 <td>23</td> <td></td> <td>SUB W/F TRNG DEV</td> <td>4</td> <td>481</td> <td></td> <td></td> <td>D</td>	23		SUB W/F TRNG DEV	4	481			D
64718M MC INTELLEEU WAR SYS 4 7.784 14,140 9,546 1 64718M TACAIR OPER CENT 65M 4 23,432 13,361 16,005 1 64728M TACAIR OPER CENT 65M 4 5,493 1,570 56,216 40,971 1 64728M REGIONAL TAC SURV 4 31,570 6,040 6,460 7 64771M MEDICAL DEV (ENG) 4 2,356 1,382 2,997 7 64770M AT INTEROP TAC CMO/CNTRL 4 2,356 1,686 3,471 7 64770M AT INTEROP TAC CMO/CNTRL 4 1,662 1,686 3,471 7 6550AM AT INTEROP TAC CMO/CNTRL 4 1,662 1,686 3,471 8 656A7M AT INTEROP TAC CMO/CNTRL 4 1,662 2,536 1,580 3,471 656A8M LEET TAC DEV/CNAT 4 1,362 2,372 5,873 3,424 656B8M MICHARL TAC EXPLOIT NAT CAP 4 1,326	24	64717M	COMBAT SERVICES SPT	4	4, 392	3, 638	5,465	5,821 U
64719M MC CMD/CNTRL/COMM SYS 4 23,432 13,361 16,005 64728M TACAIR OPER CENT 65 4 5,433 16,005 1 64728M REGIONAL TAC SURV 4 31,570 56,216 40,971 1 64751N INTELLIGENCE (ENG) 4 2,355 1,382 2,997 6,460 64751N INTELLIGENCE (ENG) 4 4,213 6,056 3,566 2,997 64750N JT INTEROP TAC CMD/CNTRL MC 4 4,213 16,085 3,471 3,566 64750N JT INTEROP TAC CMD/CNTRL MC 4 14,316 16,085 3,471 3,471 6550N LLECTROMAGN SPECTRUM MGT 4 14,316 16,085 14,296 5,873 6585N MINGMIT AND TECH SPT 4 7,499 3,979 5,342 5,342 6585N MC TAC EXPLOIT NAT CAP 4 7,499 3,979 5,342 6,540 6587N MC TAC EXPLOIT NAT CAP 4 21,472 22,382 13,4	25	64718M	MC INTEL/ELEC WAR SYS	4	4, 784	14, 140	9,546	11, 332 U
6472EN TACATIR OPER CENT 85 4 5,493 6472EN TACATIR OPER CENT 85 4 31,570 56,216 40,971 1 647EN INTELLIGENCE (ENG) 4 8,716 8,040 6,480 6,480 64771N MEDICAL DEV (ENG) 4 2,355 1,382 2,997 6,480 7,71 <td< td=""><td>56</td><td>64719M</td><td>MC CMD/CNTRL/COMM SYS</td><td>4</td><td>23, 432</td><td>13, 361</td><td>16,005</td><td>16,120 U</td></td<>	56	64719M	MC CMD/CNTRL/COMM SYS	4	23, 432	13, 361	16,005	16,120 U
4 31,570 56,216 40,971 1 6475N INTELLIGENCE (ENG) 4 8,716 6,040 6,460 6477N MEDICAL DEV (ENG) 4 2,355 1,382 2,997 6477N MEDICAL DEV (ENG) 4 2,355 1,382 2,997 6477N JT INTEROP TAC CMD/CNTRL MC 4 1,862 1,668 3,471 6515SN FLEET TAC DEV/EVAL 4 14,318 16,085 16,590 2,572 658GN FLEET TAC DEV/EVAL 4 14,105 2,572 5,873 14,296 658GN ELECTROMAGN SPECTRUM MGT 4 13,234 7,858 14,296 1 658GN MINGHIT AND TECH SPT 4 13,234 7,858 14,296 1 658GN MC TAC EXPLOIT NAT CAP 4 13,234 5,342 5,342 658GN MC TAC EXPLOIT NAT CAP 4 21,472 56,238 13,820 13,820 2415SN FA-18 SQUADRONS 4 34,396	27	64720M	TACAIR OPER CENT 85	4	5, 493			5
64751N INTELLIGENCE (ENG) 4 8,716 6,040 6,460 64771N MEDICAL DEV (ENG) 4 2,385 1,382 2,997 64779N JT INTEROP TAC CMD/CNTRL MC 4 4,213 6,056 3,586 64779N JT INTEROP TAC CMD/CNTRL MC 4 1,662 1,668 3,471 65155N FLEET TAC DEV/EVAL 4 14,316 16,085 16,590 2,572 65803N ELECTROMAGN SPECTRUM MGT 4 4,105 2,572 5,873 14,296 1 65863N ELECTROMAGN SPECTRUM MGT 4 7,499 3,979 5,342 1 65867N C2 SURV RECON SUP 4 7,499 3,979 5,342 1 65867N MC TAC EXPLOIT NAT CAP 4 7,499 3,979 5,342 1 24134N A-6 SQUADRONS A-6 SQUADRONS 4 31,236 22,382 13,820 1 24151N A-1 SALTOR A-1 SALTOR 3,454 59,093 6 2	28		REGIONAL TAC SURV	4	31,570	56,216	40,971	12,904 U
64771N MEDICAL DEV (ENG) 4 2,355 1,382 2,997 64779N JT INTEROP TAC CMD/CNTRL MC 4 4,213 6,056 3,586 64779N JT INTEROP TAC CMD/CNTRL MC 4 1,668 3,471 65155N FLEET TAC DEV/EVAL 4 14,318 16,085 16,590 65863N FLECTROMAGN SPECTRUM MGT 4 4,105 2,572 5,873 65867N C. SURV RECON SUP 4 7,499 3,979 5,342 65867N MC TAC EXPLOIT NAT CAP 4 7,499 3,979 5,342 65867N MC TAC EXPLOIT NAT CAP 4 21,472 22,382 13,820 13,820 24136N F/A-18 SQUADRONS 4 31,236 56,274 59,093 6 24152N FLET TCC (TAC) 4 34,356 1,757 2,221 6 24163N FLEET TCC (TAC) 4 3,312 86,574 59,093 6 24163N FLEET TCC (TAC) 4 3,312	53		INTELLIGENCE (ENG)	4	8,716	8,040	6, 460	7, 699 U
64750H JT INTEROP TAC CMD/CNTRL MC 4 4,213 6,056 3,586 64760H JT INTEROP TAC CMD/CNTRL MC 4 1,668 1,668 3,471 65153N FLEET TAC DEV/EVAL 4 14,318 16,085 16,590 2,572 65863N ELECTROMAGN SPECTRUM MGT 4 4,105 2,572 5,873 14,296 65863N MINGMINT AND TECH SPT 4 13,234 7,858 14,296 1 65867N C2 SURV RECON SUP 4 7,499 3,979 5,342 1 65867N A-6 SQUADRONS 4 21,472 22,382 13,820 1 24134N A-6 SQUADRONS 4 31,236 58,274 59,093 6 24152N FLA-18 SQUADRONS 4 34,396 22,569 34,454 6 24151N AVIATION SPT CVW 4 34,396 1,757 2,221 9 24261N SUBMARINES 4 43,112 36,813 6 27,338 9 </td <td>30</td> <td></td> <td>MEDICAL DEV (ENG)</td> <td>4</td> <td>2, 355</td> <td>1,382</td> <td>2,997</td> <td>4, 523 U</td>	30		MEDICAL DEV (ENG)	4	2, 355	1,382	2,997	4, 523 U
64760M JT INTEROP TAC CMD/CNTRL MC 4 1,862 1,668 3,471 65153N FLEET TAC DEV/EVAL 4 14,318 16,085 16,590 2 65803N ELCTROMAGN SPECTRUM MGT 4 4,105 2,572 5,873 14,296 1 65853N MIGMIT AND TECH SPT 4 7,499 3,978 14,296 1 65867N C2 SURV RECON SUP 4 7,499 3,978 5,342 1 65871M MC TAC EXPLOIT NAT CAP 4 21,472 22,382 13,820 1 24136N FA-16 SQUADRONS 4 31,236 58,274 59,093 6 24152N FILY WRNG ACET SQDRNS 4 34,396 23,569 34,454 6 24161N AVITION SPT CVW 4 3,019 1,757 2,221 6 24261N BUBMARINES 4 43,122 36,569 63,733 9	31	64779N	JT INTEROP TAC CMD/CNTRL	4	4,213	6,056	3,586	3,422 U
65BG3N FLEET TAC DEV/EVAL 4 14,318 16,085 16,590 2 65BG3N ELECTRÖMAGN SPECTRUM MGT 4 4,105 2,572 5,873 14,296 1 65BG3N MIGMIT AND TECH SPT 4 13,234 7,858 14,296 1 65BG7N C2 SURV RECON SUP 4 7,499 3,979 5,342 1 65BG7N MC TAC EXPLOIT NAT CAP 4 21,472 22,382 13,820 1 2413GN F/A-18 SQUADRONS 4 21,472 22,382 13,820 1 2415GN F/A-18 SQUADRONS 4 31,236 58,274 59,093 6 2415GN AVIATION SPT CVW 4 3,019 1,757 2,221 8 2416GN AVIATION SPT CVW 4 3,019 1,757 2,221 9 2426IN SUBMARINES 4 3,813 3,813 8 3,33 9	35			4	1,862	1,668	3, 471	3,765 U
65803N ELECTROMAGN SPECTRUM MGT 4 4,105 2,572 5,873 65853N MNGMNT AND TECH SPT 4 13,234 7,858 14,296 1 65867N C2 SURV RECON SUP 4 7,499 3,979 5,342 1 65871M MC TAC EXPLÓIT NAT CAP 4 21,472 22,382 13,820 1 24134N A-6 SQUADRGNS 4 31,236 58,274 59,093 6 24136N F/A-18 SQUADRGNS 4 31,236 23,569 34,454 6 2415IN AVIATION SPT CVW 4 3,019 1,757 2,221 9 24163N FLET TCC (TAC) 4 43,122 36,561 63,733 9 24281N SUBMARINES 4 3,813 8 56,733 9	33	65155N	FLEET TAC DEV/EVAL	4	14,318	16,085	16, 590	20, 141 U
65863N MNGMNT AND TECH SPT 4 13,234 7,858 14,296 1 65867N C2 SURV RECON SUP 4 7,499 3,979 5,342 5,342 65871M MC TAC EXPLOIT NAT CAP 4 50,342 13,820 1 24134N A-6 SQUADRONS 4 21,472 22,382 13,820 1 24152N F/A-18 SQUADRONS 4 31,236 59,093 6 24152N RLY WRNG ACFT SQDRNS 4 34,396 23,569 34,454 6 24163N FLEET TCC (TAC) 4 43,122 38,561 63,733 9 24261N SUBMARINES 4 3,913 4 3,913 9	34	65803N	ELECTROMAGN SPECTRUM MGT	4	4,105	2,572	5,873	7,308
65867N C2 SURV RECON SUP 4 7,499 3,979 5,342 65871M MC TAC EXPLOIT NAT CAP 4 503 415 849 24134N A-6 SQUADRONS 4 21,472 22,382 13,820 1 24136N F/A-18 SQUADRONS 4 31,236 58,274 59,093 6 24152N ERLY WRNG ACFT SQDRNS 4 34,396 23,569 34,454 6 24161N AVIATION SPT CVW 4 3,019 1,757 2,221 9 24261N SUBMARINES 4 3,813 9 3,813 9	35		MNGMNT AND TECH SPT	4	13, 234	7,858	14, 296	16,682 U
65871M MC TAC EXPLÓIT NAT CAP 4 503 415 849 24134N A-6 SQUADRONS 4 21,472 22,382 13,820 1 24136N F/A-16 SQUADRONS 4 31,236 56,274 59,093 6 24152N ERLY WRNG ACFT SQDRNS 4 34,396 23,569 34,454 6 24161N AVIATION SPT CVW 4 3,019 1,757 2,221 9 24261N FLEET TCC (TAC) 4 43,122 38,561 63,733 9 24281N SUBMARINES 4 3,813 8 3 9	36		C2 SURV RECON SUP	4	7, 499	3,979	5,342	5,947
24134N A-6 SQUADRGNS 4 21,472 22,382 13,820 24136N F/A-18 SQUADRGNS 4 31,236 58,274 59,093 24152N ERLY WRNG ACFT SQDRNS 4 34,396 23,569 34,454 24161N AVIATION SPT CVW 4 3,019 1,757 2,221 24261N SUBMARINES 4 43,122 38,561 63,733	37	65871M		4	503	415	849	1,175
24136N F/A-18 SQUADRØNS 4 31,236 58,274 59,093 24152N ERLY WRNG ACFT SQDRNS 4 34,396 23,569 34,454 24161N AVIATIÓN SPT CVW 4 3,019 1,757 2,221 24163N FLEET TCC (TAC) 4 43,122 38,561 63,733 24261N SUBMARINES 4 3,813 53,733	38		A-6 SQUADRONS	4	21,472	22, 382	13,820	14,482
24152N ERLY WRNG ACFT SQDRNS 4 34,396 23,569 34,454 24161N AVIATION SPT CVW 4 3,019 1,757 2,221 24163N FLEET TCC (TAC) 4 43,122 38,561 63,733 24281N SUBMARINES 4 3,813	39		F/A-18 SQUADRONS	4	31, 236	58,274	59, 093	63,474 U
24161N AVIATION SPT CVW 4 3,019 1,757 2,221 24163N FLEET TCC (TAC) 4 43,122 38,561 63,733 9 24281N SUBMARINES 4 3,813	40		ERLY WRNG ACFT SQDRNS	4	34, 396	23, 569	34,454	63, 445 U
24163N FLEET TCC (TAC) 4 43,122 38,561 63,733 24281N SUBMARINES 4 3,813	14	24161N	AVIATION SPT CVW	4	3,019	1,757	2, 221	7,466 U
24281N SUBMARINES 4	42		FLEET TCC (TAC)	4	43, 122	38, 561	63, 733	95, 211 U
	43		SUBMARINES	4	3,813			

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DATE: 04 FEB 1986 DEPARTMENT OF THE NAVY FY 1987 R D T & E PROGRAM APPRCPRIATION: 1319 N RESEARCH DEVELOPMENT TEST + EVAL, NAVY

PRAGRAM	Σ.					
LINE ELEMENT	IT ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
244 24311N	N UNDERSEA SURVEIL SYS	4	31,917	48, 232	34, 198	38,611 U
245 24313N	N SURTASS	4	3, 731	1,993	5, 833	6,356 U
246 24571N	N SPECIAL PREJECTS	4	18,664	16,982	10,500	14,408 U
247 24573N	IN COVER AND DECEPTION PROG	4	23, 185	23, 787	15,066	19,500 U
248 24575N	IN EW READINESS SUPPORT	4	8,311	7,067	4, 421	8,786 U
249 24576N	IN COUNTER C3 DEV	4	27, 371	22, 320	23, 952	25, 109 U
250 25601N	N HARM IMPROVEMENTS	4	4,020	2,633	3, 931	3,109 U
251 25604N	IN TACTICAL INFO SYS	4	133, 240		48,071	55, 642 U
252 25620N	IN ASW CMBT SYS INTEGRATION	4	11,833	10, 391	17,409	19, 532 U
253 25633N	IN ACFT EG RELIABLTY/MAINT PROG	4	7, 556	7,557	8,846	9,841 U
254 25634N	IN SUB SILENCING	4	28, 244	31,533		5
255 25658N	IN LAB FLEET SUPPORT	4	6, 326	6,146	6,056	7,346 U
256 25667N	N F-14 UPGRADE	4	276,655	347,865	268, 421	156, 657 U
257 25670N	IN TAC INTELL PROCESSING	4	2,026	1,454	2, 160	2,128 U
258 25674N	IN EW COUNTER RESPONSE	4	35,804	78, 186	69, 708	58, 509 U
259 25675N	IN CPERATIONAL REACTOR DEV	4	12, 791	12,719	18,672	22,745 U
260 26313M	M MAR CORPS TELECOM	4	6,514	3,587	11,644	14,559 U
261 26623M	IM MC GRD COMBAT/SUP ARMS SYS	4	17,480	41,800	67,934	54, 640 U
262 26624M	M MC COMBAT SERVICES SPT	4	2,825	1,449	2,548	3,857 U
263 26625M	M MC INTEL/ELEC WAR SYS	4	888	1,163	24,822	24, 149 U
264 26626M	M MC CMD/CNTL/COMM SYS	4	20,710	39,064	39, 925	57,999 U
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			FY 1987	1987 R D T & E PRUGRAM	AM	Ê	EXHIBIT R-1
PPR	APPROPRIATION:	1319 N RESEARCH DEVELOPMENT TEST + EVAL,	NAVY			DATE: 02	04 FEB 1986
		1 1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		1	THOUSAND	DOLLARS
LINE	PRØGRAM ELEMENT NUMBER	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	F 1 1 1 1 1 1 1 1 1
265	26627M	MC TECH SUPP C/C SYS	4	5, 739	4,094	7,471	8,016 U
266	28010M	TRI TAC MC	4	21, 131	9,000	6,959	12, 339 U
267	28010N	TRI TAC NAVY	4	3, 383			
	TACTICA	TACTICAL PROGRAMS		4,748,013		6,035,049	6, 191, 443
268	63518N	ADV NAVIGATION DEVEL	ß	629	1,541		
269	64514N	NAVIGATION SYSTEMS	D	1,464	918	641	1,993 U
270	64577N	EHF SATCOM	ю	73,472	39, 197	53, 141	39, 994
271	64777N	NAVSTAR GPS	Ю	58,056	61, 525	76,513	89, 031 U
272	65866N	C2 SYS PLANNING/ENGR SPT	D	5,035	5,314		
273	31303N	FIELD OP INTELL OFF	ស				
274	31326N	PRAIRIE SCHOONER	ın				
275	31327N	TECH RECON AND SURV	D.				
276	33109N	SATELLITE COMM	ເກ	11,874	17,623	11,753	14,578
277	33401N	COMMUNICATIONS SECURITY	10				
278	33603N	MILSTAR JOINT PROJ OFC TERMINAL	เก		4,095	4, 198	4,449
279	34111N	SPECIAL ACTIVITIES	ស		1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1
	INTELL	INTELLIGENCE AND COMMUNICATIONS		421,467	580, 556	695, 030	765, 499
280	63721N	ENVIRONMENTAL PROTECT	ω	7,947	8, 225	8,720	9,382
281	93790N	NATO COOPERATIVE	ω		25, 000	49,091	
282	64208N	RANGE INSTRMNTATH SYS DEV	ဖ	9, 144	11,967	11,347	13,577 U
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DEPARTMENT OF THE NAVY FY 1987 R D T & E PROGRAM

			FY 1987 R D	R D T & E PROGRAM	АМ	Ñ	EXHIBIT R-1
APPR	APPROPRIATION:	N: 1319 N RESEARCH DEVELOPMENT TEST + EVAL,	NAVY			DATE: 04	FEB 1986
	PROGRAM				(()	THOUSANDS OF	DOLLARS
L I NE		ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
283	64258N	TARGET SYS DEV	ω	83,170	96, 934	111, 690	121,867 U
284	64703N	PERS TRNG, SIMULATION & HUMAN FACTORS	ω	5,070	5, 800	6,823	6, 799 U
285	65151M	STUDIES ANALYSIS SPTMC	ဖ	1,852	1,785	1,811	2, 439 U
286	65152N	STUDIES ANALYS SPTNAVY	ဖ	6,143	6, 433	8,031	11,257 U
287	65153M	MC OPS ANALYS GP-CNA	ω	3, 306	3,714	4,068	4, 739 U
288	65154N	CNTR FOR NAV ANALYSIS	ω	15, 427	17,500	18,603	22, 837 U
289	65156M	MC OPERATNL TEST/EVAL	Ø	703	2,317	1,751	1,988 U
290	65502N	SBIR	9	25, 233			5
291	65804N	TECH INFO SERVICES	9	2,157	2,244	2,543	3,183 U
292	65852N	AUTEC	9	47,094	43, 197		Þ
293	65854M	DEVEL CENTER SUPPORT	Ø	4,512	3,958	5, 300	5, 693 U
294	65857N	INTERNATIONAL RDT/E	9	3, 235	2,820	3,687	4, 203 U
295	65859N	MØBILE SEA RANGE	9	5, 633	4, 709		כ
296	65861N	RDTE LAB/FAC MGT SPT	ဖ	59,062	61,575	54,974	57,121 U
297	65862N	RDTE INSTRUMNTN/MAT SPT	9	18, 357	18,895	19, 789	35, 404 U
298	65863N	RDTE SHIP/AIRCFT SPT	ဖ	74, 137	73, 596	81,335	98,147 U
299	65864N	65864N TEST/EVAL SPT	9	284, 596	285, 639	330, 580	359,058 U
300	65865N	OPER TEST/EVAL CAPABLTY	9	6,319	6, 281	6,853	9,209 U
301	35111N	WEATHER SERVICE	ဖ	912	1,146	1,000	N 066
			ONO	UNCLASSIFIED	۵	PAGE N-15	

UNCLASSIFIED

DEPARTMENT OF THE NAVY FY 1987 R D T & E PROGRAM

PPRE	SPRIATION	APPROPRIATION: 1319 N RESEARCH DEVELOPMENT TEST + EVAL, NAVY	EVAL, NAVY			DATE: 0	DATE: 04 FEB 1986
1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1		THOUSANDS	IF DOLLARS
L INE	ELEMENT NUMBER	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
302	35160N	DEF METECR SATEL PROG	ဖွ	21,398	45,839	49,040	53, 307 U
303	78011N	78011N MANUFACTURING TECHNOLOGY	ဖ	50,318	51,177	31,319	36, 215 U
	DEFENS	DEFENSEWIDE MISSION SUPPORT		735, 725	780, 751	808, 355	857, 415
TOTAL		RESEARCH DEVELOPMENT TEST + EVAL, NAVY		9, 070, 906	10,076,939	10, 586, 800	10, 603, 599
						PAGE N-16	

DEPARTMENT OF THE AIR FORCE FY 1987 R D T & E PROGRAM

SUMMARY

EXHIBIT R-1 DATE: 04 FEB 1986

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1		THOUSANDS OF	OF DOLLARS
	FY 1985	FY 1986	FY 1987	FY 1988
SUMMARY RECAP OF RESEARCH CATEGORIES				
	700 000	208 303	CAR CAC	258 601
RESEARCH	550 669	583,094	605, 688	635, 341
EXPLORA ORY DEVELORIENT	2 146 893	3.065,838	3.983,500	4,392,805
ADVANCED DEVELOTIENT	5.246.399	3, 838, 704	5,040,076	5, 609, 246
MANAGEMENT AND SUPPORT	911, 137	908,850	994, 158	1,028,404
	1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)	9,057,932	8,624,879	10,866,004	11,924,397
OPERATIONAL SYSTEMS DEVELOPMENT	4, 225, 559	5, 162, 529	6, 409, 396	5, 932, 642
	1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, AF	13, 283, 491	13, 787, 408	17, 275, 400	17,857,039
SUMMARY RECAP OF BUDGET ACTIVITIES				
	1		0.40	000
TECHNOLOGY BASE	753, 503	611,487	100, 270	727 504
ADVANCED TECHNOLOGY DEVELOPMENT	537, 436	665, 143	100,000	757, 304
STRATEGIC PROGRAMS	5, 611, 923	5, 357, 606	7,076,605	8,003,718
TACTICAL PROGRAMS	2, 585, 823	723,	3, 904, 505	3, 766, 135
INTELLIGENCE AND COMMUNICATIONS	1,855,559	2, 243, 708	2, 540, 741	2, 347, 810
DEFENSEWIDE MISSION SUPPORT	1,939,247	1,986,440	2, 121, 282	117,93
	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1	1 1 1 1 1 1
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, AF	13, 283, 491	13, 787, 408	17, 275, 400	17,857,039
CAP OF				
	0 K 7 K 4 B	565 001	833 076	989.850
STRAILEGIC FORCES	770 818	873 566	1 285 154	1,088,390
GENERAL FORFOUR AND CAMMINIONATIONS	2 969 544	3 447 442	4.046.689	3, 620, 339
A 10 TETE GENCE AND COMMONICALIONS	36,015	80.208	112, 161	101,347
CHAPD AND DESERVE	2 12 122		4, 531	5,056
CIPMENT (FY	9,057,932	8,624,879	10,866,004	11,924,397
L C	68, 295	,	120, 253	119, 203
TRAINING MEDICAL AND OTHER	5, 208	5,165	4,788	4,367
ADMINISTRATION AND ASSOC ACTIVITIES	5,200			962
SUPPORT OF OTHER NATIONS	3,932	2, 956	2,744	3, 128
		1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, AF	13, 283, 491	13, 787, 408	17,275,400 PAGE F-I	17,857,039

EXHIBIT R-1

DEPARTMENT OF THE AIR FORCE FY 1937 R D T & E PROGRAM

APPR	APPROPRIATION:	3600 F RESEARCH DE	AF			DATE: 04	
1 1		111111111111111111111111111111111111111	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;			THØUSANDS ØF	F DOLLARS
LINE	ELEMENT	HOLLE SUBMON WHILE	TOP	FV 1985	FY 1986	FY 1987	FY 1988 C
O Z	NOTIBER		2 :				
-	61101F	IN-HOUSE LAB INDEPENDENT RESEARCH	-	14,922	16,000	17,465	19,741 U
Ø	61102F	DEFENSE RESEARCH SCIENCES	-	187,912	206, 143	212, 587	213,860 U
ო	61103F	UNIVERSITY RESEARCH INITIATIVES	-		6,250	12,530	25,000 U
4	62101F	GEOPHYSICS	-	37,303	39, 429	40,625	42,128 U
ß	62102F	MATERIALS	-	49,955	53, 235	57,478	60,150 U
9	62201F	AEROSPACE FLIGHT DYNAMICS	-	64,958	68, 749	70, 281	72,614 U
7	62202F	AEROSPACE BIOTECHNOLOGY	-	47,053	48,136	53, 371	55, 447 U
00	- 62203F	AEROSPACE PROPULSION	-	58, 188	63, 297	65, 552	68, 415 U
တ	62204F	AEROSPACE AVIONICS	-	73, 135	71,204	67,826	78,083 U
10	62205F	TRAINING/SIMULATION TECH	-	22, 753	25,435	26,802	26, 196 U
=======================================	62206F	CIVIL ENGINEERING & ENVIRONMENTAL GA	-		9,225	5, 425	5,916 U
12	62302F	ROCKET PROPULSION	-	35, 023	40,066	41,890	43,945 U
13	62601F	ADVANCED WEAPONS	-	37,682	36, 202	37,070	38,366 U
4	62602F	CONVENTIONAL MUNITIONS	-	42,542	41,230	49,884	49,634 U
7	62702F	COMMAND/CONTROL/COMMUNICATION	-	74, 269	78,330	79,678	82,226 U
16	62703F	PERS UTILIZATIÓN TECH	-	7,808	8,556	908'6	10, 221 U
	TECHNOLOGY	LOGY BASE		753, 503	811,487	848,270	893, 942
17	63106F	LØGISTICS RESEARCH & DEV ROMTS	N	8, 405	9, 488	19, 061	29,069 U
18	63109F	INTEGRATED EW SYSTEM ADV DEVELÖPMENT	α		43,853	60,107	31,954 U
19	63202F	ACFT PROPULSION SUBSYS INTEGRATION	α	26, 438	26, 693	30, 180	31,225 U
20	63203F	ADV AVIONICS FOR ACFT	N)	23, 686	21,028	49,835	43,925 U
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1	ALTROPRIAL LON	SOUD F RESEARCH DE	AF	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DATE: 04	04 FEB 1986	ı
	MV GOOD GO					THOUSANDS OF	DØLLARS	
LINE		ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C	ишс
21	63205F	FLT VEHICLE TECHNOLOGY	N	18, 539	19, 441	27, 557	24,259 U	
22	63208F	RECON SENSORS/PROCESSING TECHNOLOGY	Ø	8, 179	5, 821	6,064	7,925 U	_
23	63211F	AERÖSPACE STRUCTURES/MATERIALS	C)	12,885	18,084	31,512	32,599 U	\neg
24	63215F	AVIATION TURBINE FUEL TECHNOLOGY	83	3,279	7,952	10,432	11,129 U	_
25	63216F	ADV TURBINE ENGINE GAS GENERATOR	Ø	25, 166	26, 933	27,838	26, 999 U	~
56	63217F	WEAPON SYSTEM POWER	Ø		1,235	3,544	6,440 U	~
27	63226F	DØD CØMMØN PRØG LANGUAGE(ADA)ADV DEV	α	8,011	7,270	6, 890	6,503 U	~
28	63227F	ADVANCED SIMULATOR TECHNOLOGY	Q	6,997	4,297	5,054	6,409 U	_
58	63231F	CREW SYSTEMS TECHNOLOGY	Ø	10, 150	11,207	15, 905	12,309 U	_
30	63244F	ACFT NON-NUCLEAR SURVIVABILITY	N	2, 589	3, 191	2,470	3, 591 U	~
31	63245F	ADV FIGHTER TECH INTEGRATION	œ	19,620	19, 203	30,679	28,741 U	
32	63250F	LINCOLN LABORATORY	CJ.	24,637	23,000	26, 524	28, 208 U	_
33	63253F	ADVANCED SYSTEM INTEGRATION DEMO	N	29, 444		6) 369	6,708 U	\neg
34	63259F	CARTOG APPLICATIONS-TAC & STRAT SYS	Ø	1,088	1,373	1,706	1,803 U	
32	63269F	NATIONAL AEROSPACE PLANE TECHNOLOGY	Ø			33, 490	84, 512 U	_
36	63302F	SPACE & MSL ROCKET PROPULSION	N	1,989	3, 295	12,911	16,477 U	
37	63319F	ADVANCED TECHNÖLÖGY CRUISE MISSILE	O	13, 935	7,482		D	\neg
38	63363F	HYPERVELÖCITY MISSILE	N	4,000	10, 456	609 '6	11,972 U	\neg
39	63401F	ADVANCED SPACECRAFT TECH	Ø	6,877	6,821	14,373	19,815 U	\neg
40	63410F	SPACE SYS ENVIRON INTERACTIONS TECH	Ø	3,711	3,854	8, 529	7,006 U	
14	63424F	CRUISE MISSILE SURVEILLANCE TECH	0	6, 994	11,255	16,850	26,625 U	_
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LINE							6 1 1 1 5
Š		ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
42	63452F	VERY HIGH SPEED INTEGRATED CIRCUITS	α	131,971	201,994	132,897	29, 548 U
43	63601F	CONVENTIONAL WEAPONS	C)	21,577	24,856	30, 903	27,672 U
4	63605F	ADVANCED RADIATION TECH	Ø	8,479	23, 449	23, 641	22,918 U
45	63704F	MANPOWER & PERSONNEL SYS TECH	Ø	1,930	2, 143	2,370	2,491 U
46	63707F	WEATHER SYSTEMS	QI.	3,034	3,375	3,697	4,102 U
47	63718F	ELECTRONIC WARFARE TECHNOLOGY	Q	24, 797	25, 540		ס
48	63723F	CIVIL/ENVIRONMENTAL ENGR TECH	N	9, 051	13, 692	13,703	13,591 U
49	63726F	FIBER OPTICS DEVLOPMENT	N	3,037	3,373	2,841	3,824 U
20	63727F	ADVANCED COMMUNICATIONS TECHNOLOGY	O	4,817	4,770	1,926	1,448 U
21	63728F	ADVANCED COMPUTER TECHNOLOGY	OI.	6, 639	7,309	10, 491	10,637 U
25	63743F	ELECTRO-OPTICAL WARFARE	Ø	15,622	13,915	53, 363	50, 469 U
23	63745F	CHEMICAL WARFARE DEFENSE	N	3, 806	4,873	5,149	3,833 U
24	63750F	COUNTER/COUNTERMEASURES -ADV DEV	Q	10, 393	13,057	7,612	8,426 U
22	63751F	TRAINING SYSTEMS TECHNOLOGY	Q	5, 245	2,264	2,411	2, 432 U
26	63752F	DOD SOFTWARE ENGINEERING INSTITUTE	α	4,973	11,443	9,541	14,328 U
22	63789F	COMD/CNTRL/COMM ADV DEV	Ø				
	ADVANC	ADVANCED TECHNOLOGY DEVELOPMENT		537, 436	665,143	783,997	727, 504
28	63258F	COMMON STRATEGIC ROTARY LAUNCHER	ო	61, 329			3
23	63311F	ADVANCED STRATEGIC MISSILE SYSTEMS	ဗ	99, 472	159, 756	176,915	184,515 U
90	63312F	ADVANCED CONCEPTS	ო				
61	63364F	SHORT RANGE ATTACK MISSILE II	ဗ	12, 364	34, 108	164,702	250, 403 U
						PAGE F-3	

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-	PROGRAM		i		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	THOUSANDS OF	DØLLARS
NG L		ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
62	63367F	STRATEGIC RELOCATABLE TARGET CAPABIL	ო			985	1,572 U
63	63368F	AIR DEFENSE BATTLE MGT TECH	ო			2,500	10,500 U
64	63369F	CRUISE MISSILE ENGAG SYS TECH	ო			2,100	13,500 U
65	63716F	ATMOSPHERIC SURVEILANCE TECH	ო	4,881	4,851	32,024	30,604 U
99	63735F	WWMCCS ARCHITECTURE	ო	13, 515	7,831	2,224	2,525 U
29	64221F	SPECIAL IMPROVEMENT PROJECTS	ო				
68	64226F	B-1B	ო	462, 529	271,640	118,652	28,948 U
69	64234F	COMMON STRATEGIC ROTARY LAUNCHER	ო		70,778	14, 591	5,832 U
20	64312F	ICBM MØDERNIZATIØN	ო	2, 169, 138	1,442,271	2,116,798	2,733,726 U
71	64326F	STRAT CONV STANDOFF CAPA(SCSC)	ю	24,865	35, 083	7,464	5
72	64361F	AIR LAUNCHED CRUISE MISSILE	ო	18,912	10,894	6,065	3,703 U
73	64406F	SPACE DEFENSE SYS	ო	197, 769	199, 500	277,957	226,217 U
74	64711F	SYSTEMS SURVIVABILITY (NUC AFFECTS)	6	9, 771	7,725	13,515	19,650 U
75	11113F	B-52 SQUADRØNS	ო	17,067	12,829		כ
92	11120F	ADVANCED CRUISE MISSILE	ო				
77	11135F	AIRCRAFT SURVIVABILITY ENHANCEMENTS	က				
78	11142F	KC-135 SQUADRØNS	ო	1,110	944	3,941	4,153 U
79	11213F	MINUTEMAN SQUADRONS	m	4,572	5,511	67, 526	221,921 U
80	11312F	PACCS/WWABNCP SYS EC-135 CL V MODS	ო	1,340	3, 993	14, 798	28,045 U
8	11316F	SAC COMMUNICATIONS	ო	6,965	7, 396	610	ח
82	12310F	NCMC - TW/AA SYSTEMS	ო	21,334	51,108	32, 935	72,527 U
						PAGE F-4	

EXHIBIT R-1	DATE: 04 FEB 1986	
FY 1967 R D T & E PROGRAM		
FY 19	L, AF	
	+ EVA	
	TEST	
	DEVELOPMENT TEST + EVAL, AF	
	RESEARCH	
	3600 F	
	APPROPRIATION: 3600 F RESEARCH DEVEL	

						THOUSANDS OF DOLLARS	
NG IN	PROGRAM ELEMENT NUMBER	I TEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	F F F F F F F F F F F F F F F F F F F
83	12311F	NCMC - SPACE DEFENSE SYSTEMS	ო	37,441	. 56, 518	41,284	23,974 U
84	12313F	BALLISTIC MSL TAC WNG/ATK ASSES SYS	ო	4,714	2,100	3,084	2,878 U
82	12323F	TW/AA INTERFACE NETWORK	ო		1,430		D
98	12325F	JØINT SURVEILLANCE SYSTEM	ო	2,302	2,017	3, 509	2,279 U
87	12411F	SURVEILL RADAR STATIONS/SITES	ო	3,514	19,700	25,004	15,527 U
88	12412F	DEW RADAR STATIONS	ო	42,000	39, 871	14,430	6,744 U
89	12417F	GVER-THE-HORIZON RADAR	ო	60, 890	65, 738	33,877	46,525 U
06	12423F	BALLISTIC MSL EARLY WNG SYSTEM	ო	996'6	12,636	16, 225	22,746 U
9	12424F	SPACETRACK	ო	10,214	9, 368	16, 461	14,264 U
92	12431F	DEFENSE SUPPORT PROGRAM	ო	63, 862	77,540	138, 178	95,429 U
8	12432F	SLBM RADAR WARNING SYSTEMS	ო	11,219	8,025	19,752	20,728 U
94	12433F	INTEGRATED OPER NUDETS DETECT SYS	ო	36, 795	20,015	31,346	9,717 U
9	12436F	COMD CTR PROCESS/DISPLAY SYS	ო	6,022	14,430	27,027	24,789 U
96	1282F	LEď	ო				
26	32015F	NEACP/E-4B CL V MODS	n	21,380			>
98	33131F	MINIMUM ESSENTIAL EMER COMM NETWORK	m	107, 681	99, 526	92,527	57,947 U
9	33152F	WWMCCS INFORMATION SYSTEM	ო		4,873	8,510	9,591 U
00	33154F	WWMCCS INFORMATION SYSTEM - JPMG	e	32, 544	62,097	111,374	85, 633 U
101	33601F	MILSTAR SAT COMM SYS (AF TERMINALS)	ဗ	127, 197	124, 254	298, 527	291, 272 U
102	33603F	MILSTAR COMM SAT SYSTEM	e	325,042	336, 886	493, 357	
103	35155F	THEATER NUC WPN STORAGE&SEC SYS	က	4, 158	1,018		5

PAGE F-5

TITEM NOMENOLATURE	Bobb	APPROPRIATION:	3600 F RESEARCH DEVELOPMENT TEST + EVAL,	AF			DAIE	04 FEB 1900
SECTION SECT	- !			1 1 1 1 1 1	1 1 1 1	1	THOUSANDS	1 1
NUMBER N				1	1 1 1 1	i i	1	
35172F BERNIE 3 3583ZF SPECIAL ANALYSIS ACTYS 3 41123F HILITARY AIRLIFT GROUP (IF) 3 51126 FROGRAMS 12,677,606 7,076,605 8,003,716 6323GF ADVANCED TACTICAL FIGHTER 4 90,880 164,628 294,099 343,520 6322GF LON CAST AL 4 4,952 9,745 3,940 4,800 6322GF LON CAST AL 4 4,952 9,745 3,940 4,800 6322GF LON CAST AL 4 4,952 9,745 3,940 4,800 6332GF LON CAST AL 4 4,252 9,745 3,940 4,800 6332GF LON CAST AL 4 4,256 4,950 4,900 14,775 15,723 6332GF LON CAST AL 4 4,973 14,616 14,179 4,836 6330GF FLAH CAST AL 4 4,973 14,616 14,179 4,8	N N		I TEM NOMENCLATURE	ACT	7	Σ i	FY 1987	FY 1988
512.67 ILLIMATE ALTAL MALLYSIS ACTYS 3 119,490 8,963 12,677 ILLIMATE ALTAL MALLYSIS ACTYS 112,677 ILLIMATE ALTAL FROME (IF) 3 12,677 ILLIMATE ALTAL FROME (IF) 4 90,860 184,628 7,076,605 8,003,718 1003,718	104	35172F	BERNIE	ဗ				
STRATE In the probleman 3 In the probleman 19,490 8,963 12,677 STRATE FORDAME 1FORDAME 1FORD	105	35892F	SPECIAL ANALYSIS ACTYS	ო				
STRATECIC PROGRAMS STRATECIC PROGRAMS STRATECIC PROGRAMS 4 90,880 164,628 7,076,605 8,003,718 63230F ADVANCED TACTICAL FIGHTER 4 4,952 9,745 3,940 94,800 63230F UNMANNED AIR RECONNAISSANCE VEHICLE 4 4,952 9,745 3,940 4,800 63230F INFMANNED AIR RECONNAISSANCE VEHICLE 4 4,952 9,745 3,940 4,800 63250F INFMANNED AIR RECONNAISSANCE VEHICLE 4 4,956 1,7,109 14,775 15,723 63240F INFMANNED AIR RECONERY 4 4,973 14,616 14,775 15,723 63247F HAVE DJINN 4 4,973 14,616 14,775 15,723 63307F HALLIMETER WAVE SEKKER 4 4,973 14,616 3,931 63714F GONBAT IDENTIFICATION TECHNOLOGY 4 1,981 9,85 3,931 63307F TSURVI TRADAR SYSUBENI 4 1,916 3,936 4,512 1,476 64201F <	90	41123F		ო		19, 490	8,963	
63230F ADVANCED TACTICAL FIGHTER 4 90,880 164,828 294,099 343,520 63239F UNMANNED AIR RECONNAISSANCE VEHICLE 4 4,952 9,745 3,940 4,800 63256F CV-22A 4 680 2,429 4,900 4,800 4,800 4,800 4,800 4,800 4,800 4,800 4,800 4,800 4,800 4,800 1,800<		STRATE	:GIC PRØGRAMS		5, 611, 923	5, 357, 606	7,076,605	8,003,718
63259F UNMANNED AIR RECONNAISSANCE VEHICLE 4 4,962 9,745 3,940 4,800 1,800 2,429 4,800 4,800 4,800 4,800 4,800 4,800 4,800 4,800 4,800 4,800 4,800 4,800 4,800 4,800 4,800 4,800 4,800 4,800 4,800 1,800 1,800 1,800 1,900	107	63230F	ADVANCED TACTICAL FIGHTER	4	90, 880	164, 628	294,099	343,520 U
6330FF CV-22A 4,860 2,429 4,920 4,800 6,800 2,429 4,900 4,800 6,800 <	108	63239F	UNMANNED AIR RECONNAISSANCE VEHICLE	4	4,952	9, 745	3,940	5
63320F LOW CGST SEEKER 4 4,286 4,683 7,076 5,509 63320F LOW CGST SEEKER 4 17,109 14,775 15,723 15,723 63320F HAVE DJINN 4 4,973 14,618 14,775 15,723 63607F F-4 MODEKNIZATION DEMOSTRATION 4 4,973 18,567 14,179 4,838 63607F F-A MODEKNIZATION DEMOSTRATION 4 1,881 985 984 931 63714F DOD PHYSICAL SECURITY EG-EXTERIOR 4 1,881 985 9,850 3,931 63742F CÓMBAT IDENTIFICATION TECHNOLOGY 4 14,912 8,528 6,314 1,478 63746F CÓMBAT IDENTIFICATION TECHNOLOGY 4 3,300 3,118 4,512 1,478 63746F CÓMBAT IDENTIFICAL ENCYGRAMS 4 3,300 3,118 4,512 1,478 64201F ACT AVIONICS EQUIPMENT DEV 4 4,606 6,516 7,780 64212F AIRCRAFT EQUIPMENT DEV 4	60	63256F	CV-22A	4	880	2, 429	4,920	
63320F LOW COST SEEKER 4 17,109 14,775 15,723 63437F HAVE DJINN 4 14,618 14,775 15,723 63607F F-4 MODERNIZATION DEMOSTRATION 4 4,973 18,567 14,179 4,838 63609F MILLIMETER WAVE SEEKERS 4 1,861 965 984 931 63714F DOD PHYSICAL SECURITY EQ-EXTERIOR 4 1,861 965 984 931 63742F COMBAT IDENTIFICATION TECHNOLOGY 4 14,912 8,528 6,314 1,478 63749F COMBAT IDENTIFICATION TECHNOLOGY 4 14,912 8,528 6,314 1,478 63749F COMBAT IDENTIFICATION TECHNOLOGY 4 3,300 3,118 4,512 1,478 63749F SPECIAL PROGRAMS 4 3,300 3,118 4,512 1,478 64201F ACT AVIONICS EQUIPMENT DEV 4 13,928 2,825 28,385 7,780 64204F F-100 DURABILLITY 4 4,606 <td< td=""><td>10</td><td>63307F</td><td>රේ</td><td>4</td><td>4, 286</td><td>4,863</td><td>7,078</td><td></td></td<>	10	63307F	රේ	4	4, 286	4,863	7,078	
63607F F-4 MODERNIZATION DEMOSTRATION 4 4,973 14,618 4,838 63607F F-4 MODERNIZATION DEMOSTRATION 4 4,973 18,567 14,179 4,838 63607F F-4 MODERNIZATION DEMOSTRATION 4 1,881 965 984 931 63717F TECHNICAL Cen-SITE INSPECTION (TGS1) 4 14,912 8,528 6,314 9,850 3,931 63748F COMBAT IDENTIFICATION TECHNOLOGY 4 14,912 8,528 6,314 1,478 63749F C3CM ADVANCED SYSTEMS 4 3,300 3,118 1,478 1,478 63749F C3CM ADVANCED SYSTEMS 4 3,300 3,118 4,512 1,478 6320F JT SURV.TGT ATK RADAR SYSUSTARS) 4 22,226 28,383 25,092 23,935 64201F FACT AVIGNICS EQUIPMENT DEV 4 4,606 6,516 4,516 7,780 64203F F-100 DURABILITY 4 4,606 6,516 4,662 7,780	111	63320F	LOW COST SEEKER	4		17,109	14,775	15,723 U
63607F F - 4 MODERNIZATION DEMOSTRATION 4 14,618 14,618 4,838 3,931 4,838 4,838 3,931 4,838 3,931 4,838 3,931 4,838 3,931 4,838 3,931 4,838 3,931 4,738	12	63437F	HAVE DJINN	4				
63714F DOD PHYSICAL SECURITY EQ-EXTERIOR 63717F TECHNICAL CN-SITE INSPECTION (TGSI) 63717F TECHNICAL CN-SITE INSPECTION (TGSI) 63742F COMBAT IDENTIFICATION TECHNOLOGY 63742F COMBAT DENTIFICATION TECHNOLOGY 648212F AIRCRAFT EQUIPMENT DEVELOPMENT 648212F AIRCRAFT EQUIPMENT DEV 648212F AIRCRAFT EQUIPMENT DEV 648212F AIRCRAFT EQUIPMENT DEV 6496 F-6	13	63607F	F-4 MODERNIZATION DEMOSTRATION	4		14,618		ס
63717F TECHNICAL SECURITY EQ-EXTERIOR 4 1,881 985 984 931 63717F TECHNICAL SECURITY EQ-EXTERIOR 4 1,981 8,528 6,314 3,931 63742F COMBAT IDENTIFICATION TECHNOLOGY 4 14,912 8,528 6,314 1,478 63749F C3CM ADVANCED SYSTEMS 4 3,300 3,118 4,512 1,478 63770F JT SURV. TGT ATK RADAR SYSCJSTARS) 4 3,300 3,118 7,512 1,478 64201F SPECIAL PROGRAMS 4 22,226 28,383 25,092 23,935 64201F F-100 DURABILITY 4 13,928 2,825 4,862 7,780 64202F F-100 DURABILITY 4 4,606 8,516 4,862 7,780	4	63609F	MILLIMETER WAVE SEEKERS	4	4,973	18,567	14,179	4,838 U
63717F TECHNICAL ON-SITE INSPECTION (TOSI) 4 14,912 8,528 6,314 3,931 63742F COMBAT IDENTIFICATION TECHNOLOGY 4 14,912 8,528 6,314 1,478 63742F C3CM ADVANCED SYSTEMS 4 498 1,949 4,512 1,478 63770F JT SURV.TGT ATK RADAR SYSCJSTARS) 4 3,300 3,118 1,478 63801F SPECIAL PROGRAMS 4 22,225 28,383 25,092 23,935 64201F ACFT AVIONICS EQUIPMENT DEV 4 13,928 2,825 2,825 64209F F-100 DURABILITY 4 4,606 8,516 4,862 7,780	15	63714F	DOD PHYSICAL SECURITY EQ-EXTERIOR	4	1,881	985	984	931 U
63742F COMBAT IDENTIFICATION TECHNOLOGY 4 14,912 8,528 6,314 1,478 63749F C3CM ADVANCED SYSTEMS 4 498 1,949 4,512 1,478 63770F JT SURV. TGT ATK RADAR SYSCJSTARS) 4 3,300 3,118 1,949 4,512 1,478 63801F SPECIAL PROGRAMS 4 22,226 28,383 25,092 23,935 64201F ACFT AVIÔNICS EQUIPMENT DEVELOPMENT 4 13,928 2,825 25,092 23,935 64209F F-100 DURABILITY 4 4,606 8,516 4,862 7,780	16	63717F	TECHNICAL ON-SITE INSPECTION (TOS!)	4			9,850	3,931 U
63749F C3CM ADVANCED SYSTEMS 4 498 1,949 4,512 1,478 63770F JT SURV. TGT ATK RADAR SYSUSTARS) 4 3,300 3,118 7 1,478 63801F SPECIAL PRÖGRAMS 4 22,226 28,383 25,092 23,935 64201F ACFT AVIÖNICS EQUIPMENT DEVELÖPMENT 4 13,928 2,825 23,825 64209F F-100 DURABILITY 4 4,806 8,516 4,862 7,780 64212F AIRCRAFT EQUIPMENT DEV 4 4,606 8,516 F-6 7,780	117	63742F	COMBAT IDENTIFICATION TECHNOLOGY	4	14,912	8, 528	6,314	ס
63770F JT SURV. TGT ATK RADAR SYSCJSTARS) 4 3,300 3,118 63801F SPECIAL PRØGRAMS 4 22,225 28,383 25,092 23,935 64201F ACFT AVIØNICS EQUIPMENT DEVELØPMENT 4 13,928 2,825 2,825 64209F F-100 DURABILITY 4 4,606 8,516 4,862 7,780 64212F AIRCRAFT EQUIPMENT DEV 4 4,606 8,516 4,862 7,780	18	63749F	C3CM ADVANCED SYSTEMS	4	498	1,949	4,512	1,478 U
63801F SPECIAL PRÖGRAMS 4 22,225 28,383 25,092 23,935 64201F ACFT AVIÖNICS EQUIPMENT DEVELÖPMENT 4 13,928 2,825 2,825 64209F F-100 DURABILITY 4 4,606 8,516 4,862 7,780 64212F AIRCRAFT EQUIPMENT DEV 4 4,606 8,516 4,862 7,780	10	63770F	JT SURV. TGT ATK RADAR SYS(JSTARS)	4	3, 300	3,118		2
64201F ACFT AVIËNICS EQUIPMENT DEVELËPMENT 4 22,225 28,383 25,092 23,935 64209F F-100 DURABILITY 4 13,928 2,825 7,780 64212F AIRCRAFT EQUIPMENT DEV 4 4,606 8,516 4,862 7,780	120	63801F	SPECIAL PREGRAMS	4				
64209F F-100 DURABILITY 4 13,928 2,825 64212F AIRCRAFT EQUIPMENT DEV 4 4,606 8,516 4,862 7,780	121	64201F		4	22, 225	28, 383	25, 092	23, 935 U
64212F AIRCRAFT EQUIPMENT DEV 4,606 8,516 4,862 7,780 PAGE F-6	122	64209F	F-100 DURABILITY	4	13, 928	2,825		ס
PAGE	123	64212F	AIRCRAFT EQUIPMENT DEV	4	4,606	8,516	4,862	

EXHIBIT R-1

APPR	APPROPRIATION:	3600 F RESEARCH DEV				DATE: 04	DATE: 04 FEB 1986
1		. c	 	,	[THOUSANDS OF	DOLLARS
2	PROGRAM EL EMENT		! !			: : : : : : : : : : : : : : : : : : :	O III
S		ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
124	64218F	ENGINE MODEL DERIVATIVE PROG	4	76, 768	909 '09	68, 132	3,156 U
125	64219F	INTEGRATED DIGITAL AVIONICS	4		8,000	13,394	276 U
126	64220F	EW COUNTER RESPONSE	4	13,926	29, 202	34,068	4,041 U
127	64222F	NUCLEAR WEAPONS SUPPORT	4	1,946	1,983	4,341	4,537 U
128	64223F	ALTERNATE FIGHTER ENGINE	4	52, 867	32, 482	109, 376	89, 393 U
129	64231F	C-17 PROGRAM	4	119, 969	372, 759	612, 262	901,922 U
130	64232F	PAVE RUNNER	4				
131	64236F	INFRARED SEARCH & TRACK SYS	4		23,054	34,846	43, 462 U
132	64247F	MODULAR AUTOMATIC TEST EQUIPMENT	4	11,792	9, 683	23, 682	26, 459 U
133	64249F	NIGHT PRECISION ATTACK	4	97, 839	39, 793	40,103	20, 429 U
134	64250F	INTEGRATED EW/CNI DEVELCPMENT	4				5,835 U
135	64268F	ACFT ENGINE COMPONENT IMPROVE PROG	4	144, 239	121,728	141,776	141,306 U
136	64302F	DEF SUPPRESSION WPNS ENG DEV	4	2,984			כ
137	64313F	T-46A	4	76,685	52,812	10,756	11,714 U
138	64314F	ADV MED RANGE AIR-TO-AIR MSL	4	204, 291	101,291	39,080	13,013 U
139	64315F	ADV SHØRT RANGE AIR-TØ-AIR MISSILE	4			386	865 U
140	64321F	JOINT TACTICAL FUSION PROGRAM	4	17,703	23,720	24,661	
141	64327F	HARDENED TARGET MUNITIONS	4			15, 115	15, 353 U
142	64362F	GRD LAUNCHED CRUISE MSL	4	18, 563	299	7,377	ב
143	64601F	C/B DEFENSE EQUIPMENT	4	11,187	21,915	27,187	27,623 U
144	64602F	ARMAMENT GRDNANCE DEVELOPMENT	4	18,481	17,116	29, 773	25, 235 U

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DEPARTMENT OF THE AIR FORCE FY 1987 R D T & E PROGRAM

			FY 1987 K D	U I & E PROGRAM	E	Υ.Υ.	EXHIBIT K-I
APPF	APPROPRIATION: 3600 F	RESEARCH DEVELOPMENT TEST + EVAL,	AF			DATE: 04	04 FEB 1986
1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1	1 1 1 1 1	THOUSANDS OF	DOLLARS
LINE	PROGRAM E ELEMENT NUMBER	I TEM NOMENCLATURE	ACT	FY 1985	F 7 1986	FY 1987	FY 1988 C
145	64604F	SUBMUNITIONS	4	34,853	37, 919	4, 921	4,767 U
146	64607F	WIDE-AREA ANTI-ARMOR MUNITION	4	19, 222	12, 238	15, 102	18,120 U
147	64617F	AIR BASE SURVIVABILITY & RECOVERY	4	12, 758	19, 393	21,330	19, 799 U
148	64703F	AEROMEDICAL SYSTEMS DEVELOPMENT	4	4, 921	7,844	9,341	8,873 U
149	64706F	LIFE SUPPORT SYSTEM	4	9,918	15, 272	12, 396	20, 432 U
150	64708F	OTHER OPERATIONAL EQUIPMENT	4	19,947	17,507	14, 469	9,869 U
151	64710F	RECONNAISSANCE EQUIPMENT	4	5, 273	7,621	9,540	10, 200 U
152	64715F	DOD PHYSICAL SECURITY EG-EXTERIOR	4	21,471	15, 332	18,511	11,758 U
153	64724F	TAC C3 COUNTER-MEASURES	4	23, 075	29, 661	24, 636	16, 363 U
154	64725F	COMBAT IDENTIFICATION SYSTEMS	4	13, 731	12,828	12,012	29, 494 U
155	64733F	SURFACE DEF SUPRESSION	4	16, 706	29, 235	44, 119	34, 182 U
156	64737F	AIRBORNE SELF-PROTECTION JAMMER	4	24,874	5, 000	10,071	D
157	64738F	PROTECTIVE SYSTEMS	4	42,855	50, 115	92, 705	72, 390 U
158	64739F	TACTICAL PROTECTIVE SYSTEMS	4	29, 651	43, 789	94,910	95, 004 U
159	64740F	COMPUTER RESOURCES MGT TECH	4	9, 369	11,705	12,957	18,689 U
160	64742F	PRECISION LOCATION STRIKE SYSTEM	4	76, 895	61,474	26, 601	11,136 U
161	64750F	INTELLIGENCE EQUIPMENT	4	15, 273	13, 138	10,417	7,091 U
162	64753F	COMBAT HELICOPTER MODERNIZATION	4	34,031	9,745		ב
163	64754F	JT TAC INFO DIST SYS	4	85,005			ם
164	64756F	SIDE LÖCKING AIRBORNE RADAR (SLAR)	4	27, 181	23,440	19, 691	19,278 U
165	64770F	JSTARS	4	46, 429		355, 692	335, 516 U
					a.	PAGE F-8	
			_	L			

APPR	APPROPRIATION:	3600 F RESEARCH DEVELOPMENT TEST + EVAL,	AF			DATE: 04	04 FEB 1986
	1		 			THOUSANDS OF	DÖLLARS
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N N N	NUMBER	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
166	64779F	JT INTEROPERABILITY TAC COMD/CNTRL	4	13, 384	8, 908	9,866	6,218 U
167	11133F	SR-71 SQUADRONS	4				
168	21131F	US READINESS COMD - COMM	4				4,913 U
169	27129F	F-111 SQUADRONS	4	000'09	47,253	35, 236	27,842 U
170	27130F	F-15 SQUADRONS	4	189, 592	229, 993	208,988	106,473 U
171	27131F	A-10 SQUADRONS	4	2, 108	3,014		ס
172	27133F	F-16 SQUADRONS	4	91,418	66,270	81,323	42,718 U
173	27136F	F-46 WILD WEASEL SQUADRONS	4	47,267	35, 740	38, 698	23,278 U
174	27137F	CONSTANT HELP	4				
175	27139F	COMPETITIVE FIGHTER PROCUREMENT	4				27,516 U
176	27162F	TACTICAL AGM MISSILES	4	1,883	1,943	2,377	2,398 U
177	27168F	F-11] SELF PROTECTION SYSTEMS	4				32, 429 U
178	27215F	TR-1 SQUADRONS	4			23, 509	33,897 U
179	27217F	FOLLOW-ON TAC RECCE SYS	4			30,583	19,935 U
180	27247F	AIR FORCE TENCAP	4	260	244	105	320 U
181	27411F	OVERSEAS AIR WEAPON CONT SYS	4	3,175	3,014	8,534	10, 906 U
182	27412F	TACTICAL AIR CONTROL SYSTEM	4	23, 504	14, 566	19, 261	41,694 U
183	27417F	AIR BORNE WARNING & CONTROL SYS	4	65, 114	118,762	137, 190	117,842 U
184	27419F	TACTICAL AIRBORNE CMD & CONTROL SYS	4		7,943		כ
185	27423F	ADV COMM SYS	4	84,813	100,786	33, 335	30,437 U
186	27431F	TAC AIR INTELL SYS ACTYS	4	579	2, 135	492	491 U
						PAGE F-9	

APPR	APPROPRIATION:	: 3600 F RESEARCH DEVELOPMENT TEST + EVAL,	, AF			DATE:	04 FEB 1986
			t t t t t t t t t t t t t t t t t t t		1	THOUSANDS OF DOLLARS	l l
	PROGRAM		1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8
LINE		ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
187	27435F	TACTICAL RECON IMAGERY EXPLOITATION	4	1,356	7, 495	831	N 66
188	27584F	SEEK AXLE	4				
189	27585F	SEEK SPINNER	4				
190	27591F	OMEGA	4				
191	27595F	BASE COMM - TACTICAL AIR FORCES	4	985	862	3,207	3,245 U
192	28010F	JT TACTICAL COMM PROG (TRI-TAC)	4	9,810	4,776	11,425	13,349 U
193	28042F	HAVE FLAG	4				
194	33605F	SATELLITE COMMUNICATIONS TERMINALS	4	2,860	4,814	4,615	4,464 U
195	35887F	ELECTRONIC COMBAT INTEL SPT	4	1,928	1,552	1,784	1,673 U
196	41115F	C-130 AIRLIFT SQUADRONS (IF)	4	789			ס
197	41129F	THEME CASTLE	4				
198	41314F	OPERATIONAL SUPPORT AIRLIFT	4				269 U
199	41840F	MAC COMMAND/CONTROL SYS	4	7,313	7,741	22,712	16, 139 U
200	44011F	SPECIAL OPERATIONS FORCES	4		9,745	66, 539	68,373 U
201	52610F	A-7 SQUADRØNS (ANG)	4		3 3 1 1 1 3 1	4,531	5,056 U
	TACTIC	TACTICAL PRØGRAMS		IO.	2, 723, 024	3,904,505	3, 766, 135
202	63260F	INTELLIGENCE ADVANCED DEVELOPMENT	ıo			6,081	7, 790 U
203	63261F	PAVE RUNNER ADVANCED DEVELOPMENT	D				
204	63431F	SPACE COMMUNICATIONS	IO.	39, 168	41,916	35, 805	37,021 U
202	64238F	CONSTANT PISCES	10				

EXHIBIT R-1

ошо \supset \supset 12,531 U \supset 52,650 U 5,264 U 8,067 U 5,098 U FY 1988 9, 336 04 FEB 1986 THOUSANDS OF DOLLARS 1,970 DATE: 5,630 FY 1987 54, 567 7,670 18,575 45,024 14,001 1,793,491 6,753 11,249 30,600 FY 1986 1,738,619 27,960 7,256 23,913 3,200 068 '9 28,023 3,247 1,605,300 FY 1985 9,329 9,060 10,370 55, 197 ACT S D 2 D n D D D 10) D S S S S ß AF APPROPRIATION: 3600 F RESEARCH DEVELOPMENT TEST + EVAL, INTEG OPERATIONAL NUDETS DETECT SYS INTELLIGENCE PRODUCTION ACTIVITIES TRAFFIC CNTRL/APPROACH/LANDING SYS INFRARED PROCESSING + EXPLOITATION DEFENSE RECONN SUPPORT ACTIVITIES ELECTREMAG COMPATIBILITY ANAL CTR MISSILE AND SPACE TECH COLLECTION MMCS-WIDE SUPPORT-COMMUNICATIONS NAVSTAR GLOBAL POS SYS (USER EQ) LONG-HAUL COMMUNICATIONS (DCS) I TEM NOMENCLATURE FOREIGN TECHNOLOGY DIVISON NAVSTAR GPS USER EQUIPMENT COMMUNICATIONS SECURITY SENIOR YEAR OPERATIONS DEF SATELLITE COMM SYS SPECIAL ACTIVITIES I-S/A AMPE SYSTEM FOREST GREEN SEEK CLOCK HAVE TRUMP PROGRAM ELEMENT NUMBER 31305F 31314F 33110F 33126F 33128F 64778F 31315F 31317F 31324F 31357F 32053F 33144F 35164F 27169F 27582F 31310F 33401F 34111F 35114F 35159F LINE 206 209 210 212 213 214 215 216 217 218 219 220 225 S 208 211 221 223 224 207 222

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DEPARTMENT OF THE AIR FORCE FY 1987 R D T & E PROGRAM

4,881 U 83,730 U 5 \supset **-**Þ 5 23, 594 U > **5** \supset \supset ⊃ \supset > \supset \supset 45, 592 U 4,367 U 11,677 11,422 62, 351 78, 256 8,858 4,901 FY 1988 2,347,810 14,431 8, 187 73,857 6,268 9,930 26,652 DATE: 04 FEB 1986 THOUSANDS OF DOLLARS EXHIBIT R-1 8,680 5,686 10,987 FY 1987 44, 362 4,788 3,214 73,692 5,405 49,249 11,149 102, 736 8,444 64,616 89,518 8,295 7,384 25,889 1 1 1 1 1 1 1 18,031 2, 540, 741 2,000 6, 578 4, 164 6,550 FY 1986 44,365 5, 165 66, 690 25,000 13,119 28,436 381 28,642 2, 243, 708 7,872 52,624 3,290 15, 234 8,245 4,699 20,671 4,994 7,544 FY 1985 32,789 1,855,559 8, 151 6, 161 73, 954 18, 598 10,636 33,885 17,984 5,208 74,538 5,490 126, 285 314, 349 15, 753 4,922 3,364 ACT D D 9 9 9 9 9 ဖ ø Θ 9 ø 9 ø 9 ဖ 9 9 APPROPRIATION: 3600 F RESEARCH DEVELOPMENT TEST + EVAL, AF VARIABLE IN-FLT TEST ACFT (VISTA) RANCH HAND II EPIDEMICLOGY STUDY NAVSTAR GPS (SPACE/GRD SEGMENTS) ELECTROMAG RADIATION TEST FACIL R&M MATURATION/TECH INSERTION IMPROVED CAPABILITY FOR RDT+E SMALL BUSINESS INNOVATION DEV NAV/RADAR/SLED TRACK TEST SPT FLIGHT SIMULATOR DEVELOPMENT SATELLITE SYS SURVIVABILITY ITEM NOMENCLATURE GEN INTELLIGENCE SKILL TNG INTELLIGENCE AND COMMUNICATIONS ADV AERIAL TARGETS DEV ACQ/COMD SPT - TELECOM NATO COOPERATIVE R&D CONCEPT DEVELOPMENT SPACE TEST PROGRAM RANGE IMPROVEMENT PROJECT AIR FORCE WEATHER SYSTEMS SPACE SHUTTLE 35165F ELEMENT 84733F 64735F 64747F 64755F 65101F 64227F 64237F 64411F PROGRAM 63248F 63402F 63438F 63790F 64211F 64609F 65304F 65708F 64707F 65306F 65502F LINE 226 S 227 228 229 230 232 233 234 235 236 238 239 240 243 244 245 231 237 241 242

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DEPARTMENT OF THE AIR FORCE FY 1987 R D T & E PROGRAM

4,438 U 6,734 U 39, 198 U 68,833 U S шО 308,865 U 312,042 U) 60,961 U \supset 1,250 U 145,115 U 113,618 U \supset 118,310 U 66, 649 U \supset 226, 621 U 673 U 26,212 114,794 60,532 FY 1988 EXHIBIT R-1 DATE: 04 FEB 1986 THOUSANDS OF DOLLARS 31,405 1,157 140,310 110,268 91,714 4,788 487 83, 573 285,063 23, 144 5,106 138,690 93,664 63,772 FY 1987 62,404 175,867 304, 151 71,259 54,874 2,924 62,895 13,999 FY 1986 356, 520 426, 686 17,000 2,932 55, 547 85, 187 75, 432 215, 751 3,032 1,000 93,000 53,880 13,415 421,273 51,510 31,356 63, 433 39,476 FY 1985 347, 297 2,000 82,835 ACT Ø ø ဖ 9 ဖ ဖ ဖ APPROPRIATION: 3600 F RESEARCH DEVELOPMENT TEST + EVAL, PRODUCT/RELIABLE/AVAIL/MAINTAIN PROG CONSOLIDATED SPACE OPERATIONS CENTER PRODUCT PERFORMANCE AGMT CNTR(PPAC) INVENTORY CONTROL POINT OPERATIONS DEF METEOROLOGICAL SATELLITE PROG INFORMATION MGMT AUTOMATION PROG ACQUISITION AND COMMAND SUPPORT I TEM NOMENCLATURE REAL PROPERTY MAINT -RDT+E SATELLITE CONTROL FACILITY DEPOT MAINTENANCE (NON-IF) PRODUCTIVITY INVESTMENTS ADV SYS ENGINEERING/PLAN SPACE SHUTTLE OPERATIONS INDUSTRIAL PREPAREDNESS BASE OPERATIONS (RDT+E) TEST AND EVALUATION SPT RDT&E AIRCRAFT SUPPORT SPACE BOOSTERS PROGRAM ELEMENT NUMBER 35171F 72207F 78026F 65872F 35160F 38610F 71112F 78011F 65806F 65863F 65874F 65894F 65896F 35110F 35119F 35130F 65807F 65808F LINE 255 256 258 259 260 262 263 246 248 249 250 252 253 254 257 261 247 251

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DEPARTMENT	FY 1987

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	PROGRAM		i	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	HOUSANDS	THOUSANDS OF DOLLARS
LINE		ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
264	78031F	LØGISTICS C31 SYSTEM	ග		8, 283		ס
265	91215F	PRØDUCTIVITY INVESTMENTS	ဖ				962 U
266	92998F	MANAGEMENT HQS-ADP SUPPORT (AF)	ဖ	5, 200			5
267	01004F	01004F INTERNATIONAL ACTIVITIES	ω	3,932	2,956	2,744	3,128 U
	DEFENS	DEFENSEWIDE MISSION SUPPORT		1, 939, 247	1, 986, 440	2, 121, 282	2, 117, 930
TOTAL		RESEARCH DEVELOPMENT TEST + EVAL, AF		13, 283, 491	13, 787, 408	17, 275, 400	17,857,039
			NO	UNCLASSIFIED		PAGE F-14	

SUMMARY

EXHIBIT R-1

DATE: 04 FEB 1986

	FY 1965	FY 1986	FY 198	~
RECAP OF RE	† † † † † † † † † † † † † † † † † † †	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1
RESEARCH	76,573	165, 701	110,421	140, 483
EXPLORATORY DEVELOPMENT ADVANCED DEVELOPMENT	594,936	805,073	829,623	921,057
ENGINEERING DEVELOPMENT	6, 466	661,057	214, 267	225, 545
MANAGEMENT AND SUPPORT	106,024	109, 655	153, 835	175,684
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)	2, 482, 218	4, 738, 028	6, 509, 345	7.337.079
SPERATIONAL SYSTEMS DEVELOPMENT	1,668,709	1,904,358	1,854,955	1,903,835
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, DEF AGENCIES	4,150,927	6,642,386	8,364,300	9, 240, 914
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TROUND DO VICE THE PROPERTY OF	11	7 11 010		
ADVANCED TECHNOLOGY DEVELOPMENT	1,579,088	2.947,536	5. 106. 388	5,808,683
STRATEGIC PROGRAMS	74,641	83, 852	72,918	91,683
TACTICAL PROGRAMS	2,047	719, 177	291, 739	295, 605
DEFENSEWIDE MISSION SUPPORT	1,014,888	139 662	7,736,701	1,790,874
			60.00	000,000
TÖTAL RESEARCH DEVELÖPMENT TEST + EVAL, DEF AGENCIES	4, 150, 927	6, 642, 336	8, 364, 300	9, 240, 914
SUMMARY RECAP OF FYDP PROGRAMS				
GENERAL PURPOSE FORCES	2,047	61,212	79, 809	73,915
"	1,663,942	1,836,600	1,761,907	1,813,075
RESCARCH AND DEVELOPMENT (FYDP PROGRAM 6)	2, 482, 218	4, 738.028	6, 503, 345	7, 337, 079
SUPPORT OF OTHER NATIONS	783	5,000	11,500	15,100
TÖTAL RESEARCH DEVELÖPMENT TEST + EVAL, DEF AGENCIES	4, 150, 927	6, 642, 386	8, 364, 300	9,240,914
SUMMARY RECAP OF DEFENSE AGENCIES				
DEFENSE MAPPING AGENCY	201,077	258, 285	273, 609	323, 382
STRATEGIC DEFENSE INITIATIVE ORGANIZATION	1, 397, 299	2, 759, 222	4,802,566	5, 463, 312
DEFENSE ADVANCED RESEARCH PROJECTS AGENCY	58, 989	829, 476	431,850	429, 533
NATIONAL SECURITY AGENCY		10,000	000 1200	914,000
To the state of	333, 237	350, 988	347,013	408, 149
DEFENSE RECONNATIONANCE SOFFICE PROGRAM	354, 178	252, 607	147,055	200
DEFENSE COMMUNICATIONS AGENCY	98.676	106.807	119, 292	137 415
DEFENSE INTELLIGENCE AGENCY				
DEFENSE I MOTSTICS AGENCY	200	59, 129	77, 651	71,696
UNIFORMED SERVICES UNIVERSITY HEALTH SCIENCES	1 766	31,825	94,550	56, 371
			6,906	204 (7
TÖTAL RESEARCH DEVELÖPMENT TEST + EVAL, DEF AGENCIES	4, 150, 927	6, 642, 386	6,364,300 PAGE D-1	9,240,914

DEFENSE AGENCIES FY 1987 R D T & E PROGRAM

EXHIBIT R-1

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Interest Item nomenolature Act FY 1985 FY 1986 FY 1987	Į.			1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
61101E DEFENSE RESEARCH SCIENCES 1 74,807 95,900 1 61101B III-HOUSE LAB INDEPENDENT RESEARCH 1 1,766 1,748 2,021 61103D UNIVERSITY RESEARCH INITIATIVES 1 1 50 70,473 2,021 61103E UNIVERSITY RESEARCH INITIATIVES 1 1 500 1,500 12,500 62101E TECHNICAL STUDIES 1 1 1,500 1,500 12,500 62201E STRATEGIC TECHNICLEON 1 1,500 1,500 1,14,000 15,500 62702E TACTICAL TECHNICLOSY 1 1,64,033 44,200 15,500 15,500 62702E TACTICAL TECHNICLOSY 1 1,64,333 44,000 15,500 15,500 62702E TACTICAL TECHNICLOSY 1 1,64,333 44,000 15,500 15,500 62712E MATERIALS PROCESSING TECHNICLOSY 1 1,64,333 34,000 15,500 1,340 62714 DEFENDENCINCLOSY MARCK & KILL ASSESSMENT 2	SA			ACT	FY 1985	FY 1986	FY 1987	о I
61101H INTHURE LAB INDEPENDENT RESEARCH 1 1,766 1,746 2,021 61103D UNIVERSITY RESEARCH INITIATIVES 1 70,473 2,021 61103E UNIVERSITY RESEARCH INITIATIVES 1 5,980 12,500 62101E TECHNICAL STUDIES 1 1,500 1,500 240,620 62301E STRATEGIC TECHNICLORY 1 152,771 289,370 240,620 240,620 62702E TACTICAL TECHNICLORY 1 15,701 289,370 240,620 114,000 62702E TACTICAL TECHNICLORY 1 16,400 20,000 15,500 62702E TACTICAL TECHNICLORY 1 26,976 29,490 34,660 62712E MTEGRATED COMD/CONTROL TECH 1 26,976 29,490 34,000 62714E NUCLEAR MONITORING 1 26,976 19,500 19,400 62714B TECHNICLORY BASE 1 771,509 37,713 11,614,955 11,614,955 11,614,955 11,614,955 11,614,955 <td< td=""><td>-</td><td>61101E</td><td>DEFENSE RESEARCH SCIENCES</td><td>-</td><td>74,807</td><td>87,500</td><td>95, 900</td><td>113, 400 U</td></td<>	-	61101E	DEFENSE RESEARCH SCIENCES	-	74,807	87,500	95, 900	113, 400 U
61103D UNIVERSITY RESEARCH INITIATIVES 1 70,473 61103E UNIVERSITY RESEARCH 11,500 1,500 12,500 62101E TECHNICAL STUDIES 1 1,500 1,500 1,500 62201E STRATEGIC TECHNOLOGY 1 1,500 1,500 11,000 11,000 62702E TACTICAL TECHNOLOGY 1 1,500 114,000 114,000 115,500 62702E TACTICAL TECHNOLOGY 1 1,500 20,000 115,500 114,000 115,500 62702E TACTICAL TECHNOLOGY 1 46,333 49,000 56,500 114,000 15,500 62712E NATERIALS PROCESSING TECH 1 26,976 29,490 34,660 15,000 6271A NUCLEAR MONITORING 1 16,136 19,000 19,400 19,400 6271A NUCLEAR MONITORING 1 16,136 34,701 19,400 19,400 6271A NUCLEAR MONITORIA RECK & KILL ASSESSMENT 2 254,960 340,044 11	N	61101W	IN-HOUSE LAB INDEPENDENT RESEARCH	-	1,766	1,748	2,021	2,483 U
62101E TECHNICAL STUDIES 62301E STRATEGIC TECHNOLOGY 62201E STRATEGIC TECHNOLOGY 62202E TACTICAL TECHNOLOGY 62202E TACTICAL TECHNOLOGY 62203E TACTICAL TECHNOLOGY 62204E TACTICAL TECHNOLOGY 62304E TACTICAL TACTICAL TECHNOLOGY 62304E TACTICAL TACTICAL TECHNOLOGY 62304C TACTICAL TACTICAL TECHNOLOGY 62304C TACTICAL TACTICAL TECHNOLOGY 62304C TACTICAL TACTICAL TECHNOLOGY 62304C TACTICAL TACTICAL TACTICAL TECHNOLOGY 62304C TACTICAL TACTICAL TACTICAL TECHNOLOGY 62304C TACTICAL TACT	්	61103D	UNIVERSITY RESEARCH INITIATIVES	-		70,473		5
CE210IE TECHNICAL STUDIES 1,500 1,500 240,620 2 6230IE STRATEGIC TECHNOLOGY 1 152,771 239,370 240,620 2 6270ZE TACTICAL TECHNOLOGY 1 1,500 114,000 1 6270ZE TACTICAL TECHNOLOGY 1 1,640 20,000 15,500 15,500 6270ZE INTEGRATED COMD/CONTROL TECH 1 26,876 29,490 15,500 15,500 6271ZE MATERIALS PROCESSING TECH 1 26,876 29,490 34,660 19,400 6271ZE MUCLEAR MONITORING 1 1,815B 19,500 19,400 19,400 6271AF INCLEAR MONITORING 1 333,237 350,98B 34,600 19,400 6271AF INCLEAR MONITORING 1 1,815B 19,500 11,800 11,800 6271AF INCLEAR MONITORING 2 26,95B 11,262,113 11,614,95E 11,614,95E 6232CO SURVIVALILLANG 2 255,95B 8444	4	61103E	UNIVERSITY RESEARCH	-		5,980	12,500	24, 600 U
C2701E TRATEGIC TECHNOLOGY 1 152,771 239,370 240,620 2 62702E TACTICAL TECHNOLOGY 1 99,042 94,250 114,000 1 62702E TACTICAL TECHNOLOGY 1 16,400 20,000 15,500 1 62703E INTEGRATED COMD/CONTROL TECH 1 46,333 49,000 56,500 15,500 62704E INTEGRATED COMD/CONTROL TECH 1 46,333 49,000 56,500 15,500 62712E MATERIALS PROCESSING TECH 1 16,400 20,000 15,500 15,500 62714E NUCLEAR MONITORING 1 18,156 19,400 34,600 19,400 62715H DEFENSE NUCLEAR MONITORING 1 19,156 19,400 19,400 62716H DEFENSE NUCLEAR MONITORING AKILL ASSESSMENT 2 545,950 950,077 11,930 76320C SURVEILLANCE, ACGSN, TRACK & KILL ASSESSMENT 2 255,950 951,240 1,614,955 11,930	D	62101E	TECHNICAL STUDIES		1,500	1,500		1,700 U
6270ZE TACTICAL TECHNOLGGY 1 99,042 94,250 114,000 1 6270ZE PARTICLE BEAM TECHOLGGY 1 16,400 20,000 15,500 15,500 6270ZE INTEGRATED COMD/CONTROL TECH 1 46,333 49,000 56,500 56,500 6271ZE MATRIALS PROCESSING TECH 1 26,876 19,500 19,400 56,500 62713E MATRIALS PROCESSING TECH 1 18,158 19,500 19,400 56,500 62713E MUCLEAR MONITORING 1 18,158 19,500 19,400 19,400 62715H DEFENSE NUCLEAR AGENCY 1 133,237 350,988 347,013 1,130 7ECHNOLGGY BASE TECHNOLGGY BASE 1 771,509 970,774 940,044 1,614,955 1,130 75220C SUNVEILLANCE, ACOSN, TRACK & KILL ASSESSMENT 2 545,950 956,956 1,262,413 1,614,955 1,614,955 1,614,955 1,614,955 1,614,955 1,614,955 1,614,955 1,614,955 1,614,95	ω	62301E	STRATEGIC TECHNOLOGY	-	152, 771	239, 370	240,620	259, 500 U
62705E INTEGRATED COMD/CONTROL TECH 1 16,400 20,000 15,500 15,500 62706E INTEGRATED COMD/CONTROL TECH 1 46,333 49,000 56,500 56,500 62714E INTEGRATED COMD/CONTROL TECH 2 1 18,158 29,490 34,600 15,500 62714E INCLEAR MONITORING 62715H DEFENSE NUCLEAR MONITORING 62715H DEFENSE NUCLEAR MONITORING 62715H DEFENSE NUCLEAR MONITORING 7 1 18,158 15,500 15,400	~	62702E	TACTICAL TECHNOLOGY	-	99,042	94,250	114,000	117,000 U
62712E MATERIALS PROCESSING TECH 1 46,333 49,000 56,500 62712E MATERIALS PROCESSING TECH 1 10,158 19,500 19,400 19,400 62712E MUCLEAR MONITORING 62714E NUCLEAR MONITORING 62716B TECHNOLOGY BASE 1 10,509 19,701 333,237 350,988 347,013 1,622,118 TECHNOLOGY BASE 1 10,509 1771	80	62707E	PARTICLE BEAM TECHOLOGY	-	16, 400	20,000	15,500	כ
62712E MATERIALS PROCESSINO TECH 62712E NUCLEAR MONITORING 62713E NUCLEAR MONITORING 62713E NUCLEAR MONITORING 62713H DEFENSE NUCLEAR AGENCY 62715H DEFENSE NUCLEAR AGENCY 62716B TECHNOLOGY BASE TO TATION TO TAKEN TRACK & KILL ASSESSMENT TECHNOLOGY BASE TECHNOLOGY BASE TO TATION TO TAKEN TRACK & KILL ASSESSMENT TECHNOLOGY BASE TO TAKEN THE TAKEN BATTLE MANAGEMENT TO TAKEN BASE TO	9	62708E	INTEGRATED COMD/CONTROL TECH	-	46, 333	49,000	56, 500	64, 800 U
62714E NUCLEAR MGNITORING 62715H DEFENSE NUCLEAR AGENCY 62716B TECHNOLOGY BASE TITION TO THE TAND BATTLE MANAGEMENT TO THE TAND BATTLE MANAG	10	62712E	MATERIALS PROCESSING TECH		26,876	29, 490	34,660	42,600 U
62715H DEFENSE NUCLEAR AGENCY 62715H DEFENSE NUCLEAR AGENCY 62716B TECHNOLOGY BASE G3220C SURVEILLANCE, ACGSN, TRACK & KILL ASSESSMENT G3221C DIRECTED ENERGY WEAPONS G3221C DIRECTED ENERGY WEAPONS G3222C KINETIC ENERGY WEAPONS G3222C KINETIC ENERGY WEAPONS G3222C KINETIC ENERGY WEAPONS G3222C SYSTEMS CONCEPTS AND BATTLE MANAGEMENT G3224C SURVIVABILITY, LETHALITY & KEY SPT TECHNOLOGY G3224C SURVIVABILITY, LETHALITY & KEY SPT TECHNOLOGY G3224C SURVIVABILITY, LETHALITY & KEY SPT TECHNOLOGY G3226E EXP EVAL OF MAJOR INNOVATIVE TECH PAGE D-1-AC	-	62714E	NUCLEAR MONITORING	-	18, 158	19, 500	19,400	24,400 U
63220C SURVEILLANCE, ACGSN, TRACK & KILL ASSESSMENT 2 545, 950 856, 956 1, 262, 413 1, 63220C SURVEILLANCE, ACGSN, TRACK & KILL ASSESSMENT 2 545, 950 856, 956 1, 262, 413 1, 614, 955 1, 1814, 955 1, 1	0		DEFENSE NUCLEAR AGENCY	-	333, 237	350, 988	347,013	408,149 U
### 171,509 970,774 940,044 1,0 TECHNOLOGY BASE 63220C SURVEILLANCE, ACGSN, TRACK & KILL ASSESSMENT 2 545,950 856,956 1,262,413 1,5 63221C DIRECTED ENERGY WEAPONS 63222C KINETIC ENERGY WEAPONS 63222C KINETIC ENERGY WEAPONS 63223C SYSTEMS CONCEPTS AND BATTLE MANAGEMENT 2 100,280 227,339 462,206 63224C SURVIVABILITY, LETHALITY & KEY SPT TECHNOLOGY 2 108,400 221,602 454,367 63225D JOIN DOD-DOE MUNITIONS TECH DEV 2 4,994 7,787 8,803 63226E EXP EVAL OF MAJOR INNOVATIVE TECH PAGE D-1-AL	6		TECHNÖLÖGY BASE	-	619	975	1,930	2,908 U
63220C SURVEILLANCE, ACGSN, TRACK & KILL ASSESSMENT 2 545,950 856,956 1,262,413 1,614,955 1,724,950 632266 EXPERIANDED TRAN			OLCGY BASE		771,509	970,774	940,044	1,061,540
63221C DIRECTED ENERGY WEAPONS 2 377,599 644,401 1,614,955 1,72,600 632266 EXP EVAL OF MAJOR INNOVATIVE TECH 2 173,692 177,179 172,600 172,600	4			Ø	545,950	856, 956	1,262,413	1,558,279
63222C KINETIC ENERGY WEAPONS 2 255,950 595,802 991,214 1,3 63223C SYSTEMS CONCEPTS AND BATTLE MANAGEMENT 2 100,280 227,339 462,206 452,206 63224C SURVIVABILITY, LETHALITY & KEY SPT TECHNOLOGY 2 108,400 221,602 454,367 63225D JGIN DOD-DOE MUNITIONS TECH DEV 2 4,994 7,787 8,803 63226E EXP EVAL OF MAJOR INNOVATIVE TECH 2 173,692 177,179 172,600	. T			N	377,599	844, 401	1,614,955	1,582,037 U
63223C SYSTEMS CONCEPTS AND BATTLE MANAGEMENT 2 100,280 227,339 462,206 63224C SURVIVABILITY, LETHALITY & KEY SPT TECHNOLOGY 2 108,400 221,602 454,367 63225D JØIN DØD-DØE MUNITIONS TECH DEV 2 4,994 7,787 8,803 63226E EXP EVAL ØF MAJØR INNOVATIVE TECH 2 173,692 177,179 172,600	16			Q	255, 950	595, 802	991,214	1,217,226 U
63224C SURVIVABILITY, LETHALITY & KEY SPT TECHNOLOGY 2 108,400 221,602 454,367 63225D JGIN DØD-DØE MUNITIONS TECH DEV 2 4,994 7,787 8,803 63226E EXP EVAL ØF MAJØR INNØVATIVE TECH 2 173,692 177,179 172,600	17			Ø	100,280	227, 339	462, 206	563,998 U
63225D JØIN DØD-DØE MUNITIONS TECH DEV 2 4,994 7,787 8,803 63226E EXP EVAL ØF MAJØR INNOVATIVE TECH 2 173,692 177,179 172,600 PAGE D-1-2	18				108, 400	221,602	454, 367	523, 654 U
63226E EXP EVAL OF MAJOR INNOVATIVE TECH 2 173,692 177,179 172,600 PAGE D-1-4	6				4, 994	7,787	8, 803	9,042 U
PAGE	6			Ø	173, 692	177,179	172,600	168, 753 U
	1							

DEFENSE AGENCIES FY 1987 R D T & E PROGRAM

		FY 1	1987	R D T & E PROGRAM	АМ	Ē	EXHIBIT R-1
APPR	APPROPRIATION:	EVELØPMENT TEST + EVAL, DEF	AGENCIES			DATE:	B 1986
1 1 1	W V AC CO	WAGGAG	; 1 1 1 1 1 1 1 1 1 1			THOUSANDS OF DOLLARS	S OF DOLLARS
LINE		ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
21	63269E	NATIONAL AERG SPACE PLANE TECHNOLOGY PROGRAM	a			60,000	80,000 U
22	63702D	SPECIAL OPERATIONS SPECIAL TECHNOLOGY OFFICE	N	6,441	3,925	4, 365	4,464 U
23	63703D	COUNTER INSURGENCY & SPECIAL TECHNOLOGY	N	4,032	10,732	12, 180	11,539 U
24	63706D	MICROWAVE/MILLIMETER WAVE MONOLITHIC INT CIR	N			11,172	36, 183 U
22	63736D	COMPUTER AIDED LEGISTICS SUPPORT	N			14,831	14,749 U
56	63756D	DOD SOFTWARE INITIATIVES (STARS)	N			35, 220	36, 532 U
27	35108K	COMMAND AND CONTROL RESEARCH	N	1,750		2,062	2,227 U
	ADVANC	ADVANCED TECHNOLOGY DEVELOPMENT		1,579,088	2,947,536	5, 106, 388	5, 806, 683
28	63734K	ISLAND SUN	ო	4,762	14, 131	31,853	53,095 U
29	32016K	NMCS-WIDE SUPPORT	ო	26,658	36, 872	10,485	11,897 U
30	32017K	WWMCCS ADP-JTSA	е	3, 036			כ
31	32019K	WWMCCS SYSTEM ENGINEER	0	26,408	21,033	19, 279	16,149 U
32	33131K	MINIMUM ESSENTIAL EMER COMM NETWORK	ო				
	STRATE	STRATEGIC PROGRAMS		74,641	83, 852	72,918	91, 683
33	64770D	JT SURVIVABILITY & TARGET ATTACK RADAR SYSTEM	4		188, 138	. (ם
34	64771·D	COMMON JT TACTICAL INFO DISTRIBUTION SYSTEM	4		187,931	211,930	221,690 U
35	64772D	JÖINT ADVANCED SYSTEMS	4		281,896		Þ
36	21135K	CINC C2 INITIATIVES	4	2,047	2,083	2, 158	2,219 U
37	280450	C3 INTEROPERABILITY (JOINT TACTICAL C3 AGCY)	4		57, 271	68, 835	63,473 U
			S	UNCLASSIFIED	L.	PAGE D-2	

DEFENSE AGENCIES FY 1987 R D T & E PRÖGRAM

Procession Pro	PPR	APPROPRIATION:	0400 D RESEARCH DEVEL	F AGENCIE			DAIE: U4 FEB	+ FEB 1990
Tactical	!			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			THCUSANDS	; 4 ; 1
TACTICAL PROGRAMY PRODUARTERS (JTC3A)	LINE		ITEM NOMENCLATURE	i i	FY 1985	FY 1986	FY 1987	988
TACTICAL PROCRAMS TACT	ď	080	Ü	· 4	1 1 1 1 1 1 1 1	1,856	8,816	
64701B MAFYCHART/GEODESY INV/PROTOTYPE DEV 5 16,119 13,197 15,584 14,758 31011G CRYPTQLOGIC ACTIVITIES 5 6,466 3,092 2,337 3,855 I 31011G CRYPTQLOGIC ACTIVITIES 5 15,659 16,266 36,113 36,839 I 3312R LONG-HAUL COMMUNICATIONS (CS) 5 15,659 2,803 3,041 2,447 I 3312R LONG-HAUL COMMUNICATIONS (CS) 5 4,579 2,803 3,041 2,447 I 3312R LONG-HAUL COMMUNICATIONS (CS) 5 167,385 2,803 3,041 2,447 I 3312R SURPORT OF THE NOS 5 167,385 2,803 3,041 2,447 I 3312R SURPORT OF THE NOS 5 10,486 7,250 10,129 10,129 3513B DIFENSE RECONNAISSANCE SUPPORT ACTIVITIES 5 10,486 7,250 10,129 3516G COMPUTER SECURITY 5 354,176 252,607 1,77,055 3586A INTEL PLAN AND REVELOPMENT	3	TACTIC	PRØGRAMS		2,047	719,177	291,739	295, 605
64701B MAP/CHART/GEODESY ENGR DEV/TEST 5 6,466 3,092 2,337 3,855 31011 GRYPTQLOGIC ACTIVITIES 5 15,659 16,266 36,113 36,838 31301L GENERAL DEFENSE INTELLIGENCE PROGRAM 5 15,659 16,266 36,113 36,838 3312K LONG-HAUL COMMUNICATIONS (DCS) 5 4,579 2,803 3,041 2,447 3312K SUPPORT OF THE NCS 5 167,385 233,771 243,629 36,839 3312K SUPPORT OF THE NCS 5 167,385 233,771 243,629 36,847 3513B DARENE RECONNAISSANCE SUPPORT ACTIVITIES 5 167,385 7,250 10,129 351591 DEFENSE RECONNAISSANCE SUPPORT ACTIVITIES 5 354,176 252,607 147,055 351591 DEFENSE RECONNAISSANCE ACTIVITIES 5 354,176 252,607 147,055 351592 DEFENSE RECONNAISSANCE ACTIVITIES 5 15,14,895 1,736,701 1,790,874 351670 COMPUNICAL CAPPORTE ACTIV	39	63701B	MAP/CHART/GEODESY INV/PROTOTYPE DEV	ıo	16, 119	13, 197	15,584	
STATESTEAN STA	40	64701B	MAP/CHART/GE@DESY ENGR DEV/TEST	ro.	6,466	3,092	2, 337	
31301L GENERAL DEFENSE INTELLIGENCE PROGRAM 5 15,659 16,256 38,113 38,838 (8)88 (8)8 (8)8 (8)8 (8)8 (8)8 (8)8	17	310116	CRYPTØLØGIC ACTIVITIES	Ŋ				
33126K COMMUNICATIONS (DCS) 5 15,659 16,256 36,113 39,839 39,841 2,903 7,250 10,129 2,447 39,839 39,842 39,842 39,841 39,842 39,842 39,841 39,841 39,841 39,841 39,842 39,841 39,842 39,842 39,842 39,842 39,842 39,842 39,842 39,842 39,842 39,842 39,842 39,842 39,842 39,842 3	27	31301L	GENERAL DEFENSE INTELLIGENCE PROGRAM	Ŋ				
33127K SUPPORT OF THE NCS 5 4,579 2,803 3,041 2,447 33401G COMMUNICATIONS SECURITY 5 167,385 233,771 243,629 2,447 2,447 35139B DMA EXPLOITATION PROGRAM 5 10,486 7,250 10,129 10,129 35139B DEFENSE RECONNAISSANCE SUPPORT ACTIVITIES 5 354,176 282,607 147,655 35159I DEFENSE RECONNAISSANCE SUPPORT ACTIVITIES 5 354,176 282,607 147,655 35167G COMPUTER SECURITY 5 354,176 282,607 147,655 35167G COMPUTER SECURITY 5 354,176 282,607 147,655 35167G COMPUTER SECURITY 5 354,176 282,607 1,77,655 35886 TACTICAL CRYPTOLOGIC ACTIVITIES 5 1,614,893 1,781,786,701 1,790,874 1NTILLIGENCE AND COMMUNICATIONS 6 27,489 18,317 20,617 26,617 65104D TECHNICAL SUPPORT FOR PA/E 6 27,489 1,8317	8	33126K		വ	15,659	16, 256	38, 113	
33139B DMA EXPLCITATION PROGRAM 5 167,385 233,771 243,629 35139B DREFENSE RECONNAISSANCE SUPPORT ACTIVITIES 5 10,488 7,250 10,129 35159B DEFENSE RECONNAISSANCE SUPPORT ACTIVITIES 5 354,176 252,607 147,055 35159I DEFENSE RECONNAISSANCE SUPPORT ACTIVITIES 5 354,176 252,607 147,055 351676 COMPUTER SECURITY 5 354,176 252,607 147,055 351676 COMPUTER SECURITY 5 354,176 252,607 147,055 35884L INTEL PLAN AND REVIEW ACTYS 5 354,176 252,607 1,736,701 35885R TACTICAL CRYPTOLGGIC ACTIVITIES 5 354,176 254,436 1,736,701 1NTELLIGENCE AND COMMUNICATIONS 6 27,489 18,317 20,617 25,407 65104D TECHNICAL SUPPORT FOR PA/E 6 1,896 2,339 3,912 5,427	4	33127K	SUPPORT OF THE NCS	Ŋ	4,579	2,803	3,041	
35139B DMA EXPLOITATION PROGRAM 5 167,385 233,771 243,629 35159B DEFENSE RECONNAISSANCE ACTIVITIES 5 10,488 7,250 10,129 35159B DEFENSE RECONNAISSANCE SUPPORT ACTIVITIES 5 354,178 252,607 147,055 35167B COMPUTER SECURITY 5 147,055 147,055 3584A INTEL PLAN AND REVIEW ACTYS 5 1,781,385 1,7786,701 1,790,874 3584A INTELLIGENCE AND COMMUNICATIONS 5 1,614,896 1,786,701 1,796,874 65104D NATO RESEARCH AND DEVELOPMENT 6 27,489 18,317 20,617 23,407 65104D GENERAL SUPPORT TG USBA/E 6 2,339 3,912 5,427 65106D GENERAL SUPPORT FOR PA/E 6 1,896 2,339 3,912 5,427	5	334016	COMMUNICATIONS SECURITY	Ŋ				
351596 DEFENSE RECONNAISSANCE ACTIVITIES 5 10,486 7,250 10,129 351596 DEF RECONNAISSANCE ACTIVITIES 5 354,176 252,607 147,055 351591 DEFENSE RECONNAISSANCE SUPPORT ACTIVITIES 5 354,176 252,607 147,055 351676 COMPUTER SECURITY 5 1,614,838 1,781,356 1,736,701 1,790,874 35884A INTEL PLAN AND REVIEW ACTYS 5 1,614,838 1,781,356 1,736,701 1,790,874 35885B TACTICAL CRYPTOLOGIC ACTIVITIES 5 1,614,838 1,781,356,701 1,790,874 1NTELLIGENCE AND COMMUNICATIONS 6 27,489 18,317 20,617 20,617 65104D TECHNICAL SUPPORT FOR PA/E 6 27,489 2,339 3,912 5,427 65106D GENERAL SUPPORT FOR PA/E 6 1,896 2,339 3,912 5,427	46	35139B	DMA EXPLOITATION PROGRAM	D	167, 385	233, 771	243, 629	
351596 DEFENSE RECONNAISSANCE ACTIVITIES 5 354,176 252,607 147,055 351676 COMPUTER SECURITY 5 147,055 147,055 35862L INTEL PLAN AND REVIEW ACTYS 5 1,614,893 1,781,355 1,736,701 1,790,874 35885G TACTICAL CRYPTGLGGIC ACTIVITIES 5 1,614,893 1,781,355 1,736,701 1,790,874 1NTELLIGENCE AND COMMUNICATIONS 6 27,489 18,317 20,617 23,407 65104D TECHNICAL SUPPORT TG USDR/E 6 27,489 18,317 20,617 23,407 65106D GENERAL SUPPORT FOR PA/E 6 27,489 2,339 3,912 5,427	47	35159B		ß	10,488	7,250	10, 129	
351591 DEFENSE RECONNAISSANCE SUPPORT ACTIVITIES 5 354,176 252,607 147,055 35884L INTEL PLAN AND REVIEW ACTYS 5	48	351596	DEF RECONNAISSANCE ACTIVITIES	Ю				
351676 COMPUTER SECURITY 5 35884L INTEL PLAN AND REVIEW ACTYS 5 35885G TACTICAL CRYPTGLGGIC ACTIVITIES 5 INTELLIGENCE AND COMPUNICATIONS 1,614,893 1,781,355 1,736,701 1,790,874 63790D NATO RESEARCH AND DEVELOPMENT 6 27,489 18,317 20,617 23,407 65104D TECHNICAL SUPPORT FOR PA/E 6 1,896 2,339 3,912 5,427 65106D GENERAL SUPPORT FOR PA/E 6 1,896 2,339 3,912 5,427	9	351591	DEFENSE RECONNAISSANCE SUPPORT ACTIVITIES	ល	354, 178	252, 607	147,055	
35884L INTEL PLAN AND REVIEW ACTYS 5 1.614,838 1,781,355 1,736,701 1,790,874 35885G TACTICAL CRYPTÓLGGIC ACTIVÍTIES 5 1,614,838 1,781,355 1,736,701 1,790,874 1NTELLIGENCE AND COMMUNICATIONS 6 27,489 1,781,355 1,736,701 1,790,874 63790D NATO RESEARCH AND DEVELOPMENT 6 27,489 18,317 20,617 23,407 65106D GENERAL SUPPORT FOR PA/E 6 1,896 2,339 3,912 5,427	20	351676	COMPUTER SECURITY	w				
358856 TACTICAL CRYPTØLØGIC ACTIVITIES 5	5	35884L	INTEL PLAN AND REVIEW ACTYS	ល				
INTELLIGENCE AND COMMUNICATIONS 63790D NATO RESEARCH AND DEVELOPMENT 65104D TECHNICAL SUPPORT TO USDR/E 65106D GENERAL SUPPORT FOR PA/E 65106D GENERAL SUPPOR	25	358856	TACTICAL CRYPTOLGGIC ACTIVITIES	D				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
63790D NATØ RESEARCH AND DEVELØPMENT 6 27,489 18,317 20,617 23,407 65104D TECHNICAL SUPPØRT TØ USDR/E 6 1,896 2,339 3,912 5,427 65106D GENERAL SUPPØRT FØR PA/E 6 1,896 2,339 3,912 5,427		INTELL	AND		1,614,898	1,781,355	1, 736, 701	1,790,874
65104D TECHNICAL SUPPORT TO USDR/E 6 27,489 18,317 20,617 23,407 65106D GENERAL SUPPORT FOR PA/E 6 1,896 2,339 3,912 5,427	53	637900	NATO RESEARCH AND DEVELOPMENT	ω		23, 491	49, 436	,
65106D GENERAL SUPPORT FOR PA/E 6 1,896 2,339 3,912 PAGE D-3	52		TECHNICAL SUPPORT TO USDR/E	ω	27,489	18,317	20,617	
	55		GENERAL SUPPORT FOR PA/E	ø	1,896	2, 339	3,912	5, 427

DEFENSE AGENCIES FY 1987 R D T & E PROGRAM

DATE: 04 FEB 1986 EXHIBIT R-1 APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST + EVAL, DEF AGENCIES

	w по)	>	>	>	>	>	5	>	>	>	>		>	>	>)	_	>	
IF DOLLARS	FY 1988	10,815 U	5, 563	3,030 U	4,010 U	17,324 U		3, 191 U	4,000 U	5, 406 U	2,821 U	14,594 U	3,407 U		3,800 U	28, 921 U	8,550	18,118 U	13,300 U	
THOUSANDS OF DOLLARS	FY 1987	6, 931	4,415	2,049	3,474	16,717		2, 801	4,000	5,000	3, 164	14,831	3, 263		3,000	22,500	7,550	17,411	12,200	
	FY 1986	6, 192	3,789	1, 691	2, 623	14,096			4,000		2, 161		2,349			20, 328	6, 500	13, 122	12, 148	
	FY 1985	4, 701	3,711	2, 406	2, 226		14, 700	300	2,911					2,800		16,873	5,750	9, 120	11,141	
	ACT	ဖ	9	ω	ø	ဖ	ø	ø	ဖ	ဖ	ဖ	9	ဖ	ø	ø	9	9	ဖ	ဖ	
	ITEM NOMENCLATURE	SUPPORT TO POLICY	GENERAL SUPPORT FOR NET ASSESSMENT	GENERAL SUPPORT FOR FMRP	CRITICAL TECHNOLOGY	RAND RESEARCH CENTER FOR USD & GJCS	TECHNICAL ANALYTICAL SUPPORT	TAPESTRY	BLACKLITE	CINC CONTRACT STUDIES SUPPORT	GENERAL SUPPORT TO C31	FOREIGN MATERIALS ACQUISTION & EXPLOITATION	GENERAL SUPPORT FOR A&L	SMALL BUSINESS INNOVATIVE RESEARCH	CRITICAL TECHNOLOGY ANALYSIS	DEFENSE TECHNICAL INFO CENTER	INFORMATION ANALYSIS CENTERS	MANAGEMENT HEADQUARTERS SDI	MGT HQ (RESEARCH/DEVELOPMENT)	
PRAGRAM	ELEMENT	65107D	65108D	65109D	65110D	65112D	65112E	65113D	65114E	65115J	65116D	65117D	651190	65502E	657118	658018	658028	658980	65898E	
	LINE	26	22	28	20	09	61	62	63	64	62	99	29	68	69	20	17	72	73	

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	}±	DEFENSE AGENCIES 7 1987 R D T & E PF	DEFENSE AGENCIES FY 1987 R D T & E PROGRAM	AM	EX	EXHIBIT R-1
: NO I TA I BOOM	APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST + EVAL, DEF AGENCIES	F AGENCIES			DATE: 04	DATE: 04 FEB 1986
		6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	! ! ! ! ! ! ! ! ! !	1	THOUSANDS OF DOLLARS	F DØLLARS
PROGRAM LINE ELEMENT NØ NUMBER	I TEM NOMENCLATURE	ACT	FY 1985		FY 1987	FY 1988 C
74 780118	INDUSTRIAL PREPAREDNESS	ဖ	1,927	5,000	11,500	15, 100 U
0	1015D TECHNOLØGY TRANSFER FUNCTIÖNS DEFENSEWIDE MISSIÖN SUPPØRT	ω	793	1,546	1,739	1,745 U
TGTAL RESEAR	RESEARCH DEVELOPMENT TEST + EVAL, DEF AGENCIES		4, 150, 927	6, 642, 386	8,364,300	9,240,914
		UNCLA	UNCLASSIFIED		PAGE D5	

DEFENSE AGENCIES FY 1987 R D T & E PROGRAM

	SUMMARY		DATE: 04	DATE: 04 FEB 1986
		1	THOUSANDS OF DOLLARS	JF DOLLARS
	FY 1985	FY 1986	FY 1987	FY 1988
ADVANCED DEVELOPMENT MANAGEMENT AND SUPPORT	59,000	25,000 93,500	47,991 93,809	97,878
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)	59,000	118, 500	141,800	97,878
TOTAL DIRECTOR OF TEST + EVALUATION, DEFENSE	29, 000	118,500	141,800	97,878
SUMMARY RECAP OF BUDGET ACTIVITIES				
DEFENSEWIDE MISSION SUPPORT	59,000	118,500	141,800	97,878
TOTAL DIRECTOR OF TEST + EVALUATION, DEFENSE	29, 000	118, 500	141,800	97,878
SUMMARY RECAP OF FYDP PROGRAMS				
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)	29,000	118,500	141,800	97,878
TOTAL DIRECTOR OF TEST + EVALUATION, DEFENSE	29,000	118, 500	141,800	97,878

DEFENSE AGENCIES

			DEFE FY 1987	DEFENSE AGENCIES 187 R D T & E PROGRAM	AM	Û	EXHIBIT R-1
APPR	OPRIATION	0450 D DIRECTOR OF TEST +	DEFENSE			DATE: 04	DATE: 04 FEB 1986
1 1		1	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 2 2 3 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		THOUSANDS OF DOLLARS	JF DOLLARS
NON	ELEMENT NUMBER	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 198
-	63790D	63790D NATO RESEARCH AND DEVELOPMENT	Ö		25,000	47, 991	ח
N	651110	65111D FOREIGN WEAPONS EVALUATION	ω	12,000	17,010	18,010	18,010 U
ო	65804D	65804D DEVELOPMENT TEST AND EVALUATION DEFENSE	ω	47,000	76, 490	75, 799	79,868 U
	DEFENS	DEFENSEWIDE MISSION SUPPORT		29,000	118,500	141,800	97,878
TOTAL		DIRECTOR OF TEST + EVALUATION, DEFENSE		29, 000	118,500	141,800	97, 878
				UNCLASSIFIED		PAGE D-7	

DEFENSE AGENCIES FY 1987 R D T & E PRÖGRAM

SUMMARY

EXHIBIT R-1

DATE: 04 FEB 1986

į	THOUSANDS OF DOLLARS		THOUSANDS OF DOLLARS	OF DOLLARS
	FY 1985	FY 1986	FY 1987	FY 1988
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1) ; ; ; ; ;
SUMMARY RECAP OF RESEARCH CATEGORIES				
MANAGEMENT AND SUPPORT			11,300	11, 735
		1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	E	1 1 1 1 1 1
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)			11,300	11,735
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
TOTAL DIRECTOR OF OPERATIONAL TEST + EVALUATION			11,300	11,735
SUMMARY RECAP OF BUDGET ACTIVITIES				
			11,300	11,735
TOTAL DIRECTOR OF OPERATIONAL TEST + EVALUATION	# # # # # # # # # # # # # # # # # # #		11,300	11,735

11, 735

11,300

TOTAL DIRECTOR OF OPERATIONAL TEST + EVALUATION

SUMMARY RECAP OF FYDP PROGRAMS
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)

DEFENSE AGENCIES FY 1987 R D T & E PROGRAM

	ĬĿ.	1987	FY 1987 R D T & E PROGRAM	ΑM	Ω Ω	EXHIBIT R-1
APPROPRIATI	APPROPRIATION: 0460 D DIRECTOR OF OPERATIONAL TEST + EVALUATION	UAT I ON				DATE: 04 FEB 1986
	• • • • • • • • • • • • • • • • • • •		 	• 6 ° 6 ° 6 ° 6 ° 6 ° 6 ° 6 ° 6 ° 6 ° 6	THOUSANDS OF DOLLARS	GUSANDS OF DOLLARS
PROGRAM	T. T	TOV	2	7086	FV 1987	EV 1087 FV 1088 C
NO NOMBER		2 :				
1 65118	65118D ØPERATIØNAL TEST AND EVALUATIØN DEFENSE	ω			11,300	11,735 U
TOTAL DIRE	TOTAL DIRECTOR OF OPERATIONAL TEST + EVALUATION		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11,300	11,735

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DEFENSE MAPPING AGENCY FY 1987 R D T & E PROGRAM

APPR	CPRIATION:	APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES	F AGENCI	S		DATE: 04	DATE: 04 FEB 1986
1 1	: : : : : : : : : : : : : : : : : : :		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	; ; ; ; ; ; ; ;		THOUSANDS OF DOLLARS	
N .	PROGRAM FI FMFNT		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	S
S N	NG NUMBER	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
13	62716B	TECHNOL GGY BASE	-	619	975	1, 930	2,908 U
00	63701B	MAP/CHART/GEØDESY INV/PRØTØTYPE DEV	Ŋ	16,119	13, 197	15, 584	14,759 U
40	64701B	MAP/CHART/GEØDESY ENGR DEV/TEST	വ	6,456	3,092	2, 337	3,855 U
46	35139B	DMA EXPLOITATION PROGRAM	c)	167, 385	233, 771	243, 629	
47	35159B	DEFENSE RECONNAISSANCE SUPPORT ACTIVITIES	വ	10,488	7,250	10,129	
	INTELLI	INTELLIGENCE AND COMMUNICATIONS		200, 458	257,310	271,679	320, 474
TOTAL		DEFENSE MAPPING AGENCY		201,077	258, 285	273, 609	323, 382
						PAGE D-10	

STRATEGIC DEFENSE INITIATIVE GRGANIZATION FY 1987 R D T & E PRÓGRAM

DATE: 04 FEB 1986 EXHIBIT R-1 APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES

	240000		İ			THOUSANDS OF DOLLARS	OF DOLLARS
LINE	PROGRAM ELEMENT NUMBER	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
4	632200	SURVEILLANCE, ACQSN, TRACK & KILL ASSESSMENT	Q	545,950	856, 956	1, 262, 413	1,558,279 U
15	63221C	DIRECTED ENERGY WEAPONS	a	377, 599	844, 401	1,614,955	1,582,037 U
16	63222C	63222C KINETIC ENERGY WEAPONS	OI.	255, 950	595, 802	991,214	1,217,226 U
17	632230	63223C SYSTEMS CONCEPTS AND BATTLE MANAGEMENT	OJ.	100, 280	227, 339	462, 206	563, 998 U
18	632240	SURVIVABILITY, LETHALITY & KEY SPT TECHNÖLÖGY	8	108, 400	221,602	454, 367	523, 654 U
	ADVANC	ADVANCED TECHNØLØGY DEVELØPMENT		1,388,179	2, 746, 100	4, 785, 155	5, 445, 194
72	658980	MANAGEMENT HEADQUARTERS SDI	ဖ	9, 120	13, 122	17,411	18,118 U
TOTAL		STRATEGIC DEFENSE INITIATIVE ORGANIZATION		1,397,299	2, 759, 222	4, 802, 566	5, 463, 312
			5	UNCLASSIFIED		PAGE D-11	

DEPARTMENT OF DEFENSE (OSD AND GASDS)

The Price A 10 to 10				1987	FY 1987 R D T & E PROGRAM		Ê	EXHIBIT R-1
PROBRAM PROMENCLATURE ACT FY 1985 FY 1986 FY	APPR	COPRIATION	0400 D RESEARCH DEVELOPMENT TEST &	AGENC				1 FEB 1986
Inchment Item nomenclature		PROGRAM				1 1 1 1 1 1 1 1 1	THOUSANDS	
632250 JOIN DODD-DOOR MUNITIONS TECH DEV 2 4,994 7,787 8,803 9,042 637020 SPECIAL OPERATIONS SPECIAL TECHNOLOGY OFFICE 2 6,441 3,925 4,366 4,464 637020 COUNTER INSURGENCY & SPECIAL TECHNOLOGY OFFICE 2 6,441 3,925 12,180 11,539 637020 MICROWAVE/MILLINETER WAVE MONOLITHIC INT CIR 2 4,032 10,732 12,180 11,539 637020 MICROWAVE/MILLINETER WAVE MONOLITHIC INT CIR 2 4,032 10,732 12,180 11,725 36,183 637020 MICROWAVE/MILLINETER WAVE MONOLITHIC INT CIR 2 22,444 86,571 112,509 637020 COMPUTER LINETOR DISTRIBUTION SYSTEM 4 167,931 211,930 221,690 647720 JOINT ADVANCED SYSTEMS 4 4,701 6,192 6,192 6,192 647720 JOINT ADVANCED SYSTEMS 6 2,7469 16,317 20,617 20,617 651040 TECHNICAL SUPPORT FOR PA/E 6 2,7469 1,691 2,048 3,030 651040 TECHNICAL SUPPORT FOR PA/E 6 2,406 1,691 2,048 3,030 651040 GENERAL SUPPORT FOR PA/E 6 2,406 1,691 2,048 3,030 651040 GENERAL SUPPORT FOR PA/E 6 2,406 1,691 2,048 3,030 651050 GENERAL SUPPORT FOR PA/E 6 2,226 2,623 3,474 4,010 651050 GENERAL SUPPORT FOR PA/E 6 2,406 1,691 2,048 3,030 651050 GENERAL SUPPORT FOR PA/E 6 2,226 2,623 3,474 4,010 651050 GENERAL SUPPORT FOR PA/E 6,917 2,041 3,738 3,030 651050 GENERAL SUPPORT FOR PA/E 6 2,406 1,691 3,717 1,7324 651050 GENERAL SUPPORT FOR PA/E 6 2,406 1,691 3,030 651050 GENERAL SUPPORT FOR PA/E 6 2,406 1,691 3,030 651050 GENERAL SUPPORT FOR PA/E 6 2,406 1,691 3,030 651050 GENERAL SUPPORT FOR PA/E 6 2,406 1,691 3,030 651050 GENERAL SUPPORT FOR PA/E 6 2,406 1,691 3,030 651050 GENERAL SUPPORT FOR PA/E 6 2,406 1,691 3,030 651050 GENERAL SUPPORT FOR PA/E 6 2,406 1,691 3,030 651050 GENERAL SUPPORT FOR PA/E 6 2,406 1,691 3,030 651050 GENERAL SUPPORT FOR PA/E 6 2,406 1,691 3,030 65	LINE			ACT	92	FY 1986	FY 1987	
637262 301N DOD-DOE MUNITIONS TECH DEV 2 4,994 7,787 8,803 9,042 4,464 3,925 4,365 4,464 3,925 4,365 4,464 4,002 4,002 10,732 12,180 11,539 11,539 11,539 11,539 11,539 11,539 11,539 11,539 11,539 11,172 36,183 11,539 11,539 11,539 11,539 11,539 11,172 36,183 11,539 11,	6	61103D		-		70,473		2
63702D SPECIAL OPERATIONS SPECIAL TECHNOLOGY OFFICE 6,441 3,925 4,365 12,160 1 63703D COUNTER INSURGENCY & SPECIAL TECHNOLOGY 2 4,032 10,732 12,160 1 63705D HICROMANDE/MILLIMETER WAVE MONDLITHIC INT OIR 2 11,172 3 6375D COMPUTER AIDED LOGISTICS SUPPORT 2 15,444 14,831 1 6375D DOD SGETWARE INITIATIVES (STARS) 2 18,467 22,444 86,571 1 6375D DOD SGETWARE INITIATIVES (STARS) 4 189,467 22,444 86,571 1 63776D JUST SURVIVABILITY & TARGET ATTACK RADAR SYSTEM 4 189,335 211,330 22 6477D COMPMON JT TACTICAL INFO DISTRIBUTION SYSTEM 4 189,337 20,617 65,795 211,330 221,330 211,330 221,330 221,330 221,330 221,330 221,330 221,330 221,330 221,330 221,330 221,330 221,330 221,330 221,330 221,330 221,330 221,330 <	9	632250	JOIN DOD-DOE MUNITIONS TECH DEV	01	4,994	7,787	8,803	9,042 U
12,180 12,180 12,180 12,180 13,180 13,180 14,331 1	22	63702D	SPECIAL OPERATIONS SPECIAL TECHNOLOGY OFFICE	a	6, 441	3, 925	4, 365	4, 464 U
11, 172 12, 172 12,	23	63703D		a	4,032	10,732	12, 180	11, 539 U
63736D COMPUTER AIDED LOGISTICS SUPPORT 2 14,831 63756D DOD SOFTWARE INITIATIVES (STARS) 2 35,220 ADVANCED TECHNOLOGY DEVELOPMENT 15,467 22,444 86,571 1 64770D JT SURVIVABILITY & TARGET ATTACK RADAR SYSTEM 4 188,138 211,930 2 64770D JGHNT ADVANCED SYSTEMS 4 186,138 211,930 2 64771D CGMMON JT TACTICAL INFO DISTRIBUTION SYSTEM 4 187,931 211,930 2 64772D JGHNT ADVANCED SYSTEMS 4 283,491 49,436 2 63730D NATÓ RESEARCH AND DEVELOPMENT 6 27,489 18,317 20,617 65106D GENERAL SUPPORT FOR PAZE 6 4,701 6,192 6,931 65106D GENERAL SUPPORT FOR FMRP 6 2,406 1,691 2,049 65108D GENERAL SUPPORT FOR FMRP 6 2,226 2,406 1,691 2,049 65108D GENERAL SUPPORT FOR FMRP 6 2,226 2,406 1,691	24	63706D	WAVE MONOLITHIC INT	N			11,172	36, 183 U
State Dod Software Initiatives (STARS) State S	22	63736D	COMPUTER AIDED LOGISTICS SUPPORT	N			14, 831	14, 749 U
ADVANCED TECHNOLOGY DEVELOPMENT 64770D JT SURVIVABILLITY & TARGET ATTACK RADAR SYSTEM 4 64770D JOINT ADVANCED SYSTEMS 64770D JOINT ADVANCED SYSTEMS 7 22,444 86,571 64770D JOINT ADVANCED SYSTEMS 7 281,896 64770D JOINT ADVANCED SYSTEMS 7 281,896 7 21,930 7	26	637560	DOD SOFTWARE INITIATIVES (STARS)	N			35, 220	
64770D JT SURVIVABILLITY & TARGET ATTACK RADAR SYSTEM 4 188,138 211,930 64771D COMMON JT TACTICAL INFO DISTRIBUTION SYSTEM 4 4 187,931 211,930 64772D JOINT ADVANCED SYSTEMS 4 281,896 211,930 211,930 7471CAL PROGRAMS TACTICAL PROGRAMS 6 27,489 18,317 20,617 65104D TECHNICAL SUPPORT TO USDR/E 6 27,489 18,317 20,617 65105D GENERAL SUPPORT TOR PA/E 6 4,701 6,192 6,931 65105D GENERAL SUPPORT FOR PA/E 6 2,406 1,691 2,049 65105D GENERAL SUPPORT FOR PA/E 6 2,406 1,691 2,049 65105D GENERAL SUPPORT FOR PA/E 6 2,406 1,691 2,049 65105D GENERAL SUPPORT FOR PA/E 6 2,406 1,691 2,049 65112D RAND RESEARCH CENTER FOR CISE SAMENT 6 2,628 2,623 3,474		ADVANC	ED TECHNOLOGY DEVELOPMENT		15, 467	22,444	86, 571	112, 509
64771D CGMMGN JT TACTICAL INFG DISTRIBUTION SYSTEM 4 187,931 211,930 64772D JGINT ADVANCED SYSTEMS 4 281,896 211,930 74772D JGINT ADVANCED SYSTEMS 4 281,896 211,930 7471CAL FROGRAMS 6 27,489 18,317 20,617 65104D 7ECHNICAL SUPPORT FOR PA/E 6 27,489 18,317 20,617 65104D 9ENERAL SUPPORT FOR PA/E 6 4,701 6,192 6,931 65104D GENERAL SUPPORT FOR PMRP 6 2,406 1,691 2,049 65104D GENERAL SUPPORT FOR PMRP 6 2,406 1,691 2,049 65104D GENERAL SUPPORT FOR PMRP 6 2,406 1,691 2,049 65104D GENERAL SUPPORT FOR PMRP 6 2,406 1,691 2,049 65104D GENERAL SUPPORT FOR PMRP 6 2,406 1,691 2,049 65104D GENERAL SUPPORT FOR PMRP 6 2,406 1,691 2,049 65104D	33	64770D				188, 138		5
64772b JGINT ADVANCED SYSTEMS 4 281,896 11,930 11,930 221,690 63790b NATÖ RESEARCH AND DEVELOPMENT 6 27,489 18,317 20,617 23,407 65104b TECHNICAL SUPPORT TÖ USDK/E 6 1,896 2,339 3,912 5,427 65107b SUPPORT TÖ POLLICY 6 4,701 6,192 6,931 10,815 65108b GENERAL SUPPORT FÖR NET ASSESSMENT 6 2,406 1,691 2,049 5,563 65109b GENERAL SUPPORT FÖR NET ASSESSMENT 6 2,406 1,691 2,049 5,563 65109c GENERAL SUPPORT FÖR PMRP 6 2,406 1,691 2,049 3,030 65110b CRITICAL TECHNÖLGÖY 6 2,226 2,623 3,474 4,010 65112b RAND RESEARCH CENTER FÖR ÖSD & OJGS 6 1,096 16,717 17,324	34	64771D	COMMON JT TACTICAL INFO DISTRIBUTION SYSTEM	4		187, 931	211,930	221,690 U
TACTICAL PROGRAMS 63790D NATÖ RESEARCH AND DEVELÖPMENT 6 27,489 18,317 20,617 23,407 65104D TECHNICAL SUPPORT TÖ VSDR/E 6 27,489 1,896 2,339 3,912 5,427 65105D GENERAL SUPPORT TÖR NET ASSESSMENT 6 4,701 6,192 6,931 10,815 65103D GENERAL SUPPORT TÖR FM&P 6 2,406 1,691 2,049 3,010 65103D GENERAL SUPPORT TÖR FM&P 6 2,406 1,691 2,049 3,010 65110D CRITICAL TECHNÖLÖGY 6 2,226 2,623 3,474 4,010 65112D RAND RESEARCH CENTER FÖR ÖSD & ÖJCS 6 2,226 14,096 16,717 17,324	32	64772D	JØINT ADVANCED SYSTEMS	4		281,896		ס
63790D NATÖ RESEARCH AND DEVELOPMENT 6 27,489 18,317 20,617 23,407 65104D TECHNICAL SUPPORT TO USDR/E 6 27,489 18,317 20,617 23,407 65105D GENERAL SUPPORT FOR PA/E 6 4,701 6,192 6,931 10,815 65103D GENERAL SUPPORT FOR FM&P 6 2,408 1,691 2,049 3,030 65109D GENERAL SUPPORT FOR FM&P 6 2,226 2,623 3,474 4,010 65112D RAND RESEARCH CENTER FOR OSD & OJCS 6 2,226 2,623 3,474 4,010		TACTIC	AL PROGRAMS		2 2 2 3 8 8 4 6 6	657, 965	211,930	221,690
65104D TECHNICAL SUPPORT TG VSDR/E 6 27,489 18,317 20,617 23,407 65106D GENERAL SUPPORT FOR PA/E 6 1,896 2,339 3,912 5,427 65107D SUPPORT TG POLICY 6 4,701 6,192 6,931 10,815 65108D GENERAL SUPPORT FOR FM&P 6 2,406 1,691 2,049 5,563 65109D GENERAL SUPPORT FOR FM&P 6 2,226 2,623 3,474 4,010 65112D RAND RESEARCH CENTER FOR ØSD & ØJCS 6 2,226 2,623 3,474 4,010	53	63790D	NATO RESEARCH AND DEVELOPMENT	ဖ		23, 491	49, 436	Э
65106D GENERAL SUPPORT TOR PA/E 6 4,701 6,192 6,931 10,815 65107D SUPPORT TOR 4,701 6,192 6,931 10,815 65108D GENERAL SUPPORT FOR 8 3,711 3,789 4,415 5,563 65109D GENERAL SUPPORT FOR 6 2,406 1,691 2,049 3,030 65110D CRITICAL TECHNOLOGY 6 2,226 2,623 3,474 4,010 65112D RAND RESEARCH GENTER FOR 14,096 16,717 17,324	24	65104D	SUPPORT TO	9	27, 489	18,317	20,617	23,407 U
65107D SUPPORT TG POLICY 6,192 6,192 6,931 10,815 65108D GENERAL SUPPORT FOR FM&P 6 3,711 3,739 4,415 5,563 65108D GENERAL SUPPORT FOR FM&P 6 2,406 1,691 2,049 3,030 65110D CRITICAL TECHNOLOGY 6 2,226 2,623 3,474 4,010 65112D RAND RESEARCH CENTER FOR ØSD & ØJCS 6 14,096 16,717 17,324	22	65106D	SUPPORT FOR	ဖ	1,896	2, 339	3,912	
65108D GENERAL SUPPORT FOR NET ASSESSMENT 6 3,711 3,789 4,415 5,563 65109D GENERAL SUPPORT FOR FM&P 6 2,406 1,691 2,049 3,030 65112D CRITICAL TECHNOLOGY 6 2,226 2,623 3,474 4,010 65112D RAND RESEARCH CENTER FOR ØSD & ØJCS 6 14,096 16,717 17,324	26	65107D		9	4, 701	6, 192	6, 931	
65109D GENERAL SUPPORT FOR FM&P 6 2,406 1,691 2,049 3,030 65112D CRITICAL TECHNOLOGY 6 2,226 2,623 3,474 4,010 65112D RAND RESEARCH CENTER FOR ØSD & ØJCS 6 14,096 16,717 17,324	22	65108D	SUPPORT FOR	ဖ	3,711	3, 789	4,415	
65112D CRITICAL TECHNOLØGY 6 2,226 2,623 3,474 4,010 65112D RAND RESEARCH CENTER FØR ØSD & ØJCS 6 14,096 16,717 17,324	28	651090	GENERAL SUPPORT FOR FM&P	9	2, 406	1,691	2,049	
65112D RAND RESEARCH CENTER FOR CSD & CJCS 6 14,096 16,717 17,324	29	651100	CRITICAL TECHNOLOGY	9	2, 226	2,623	3,474	4,010 U
	90	65112D		9		14,096	16,717	

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DEFENSE	RDT&
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DEPARTI	

EXHIBIT R-1

FY 1988 C 3, 191 U 2,821 U 14,594 U 3,407 U 1,745 U 95, 334 429, 533 THOUSANDS OF DOLLARS DATE: 04 FEB 1986 FY 1987 3, 164 3,263 1,739 133, 349 431,850 2,801 14,831 PAGE D-13 2, 161 1,546 829, 476 FY 1986 2,349 78, 594 793 FY 1985 300 43, 522 58,989 APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES ACT 9 9 9 9 65117D FOREIGN MATERIALS ACQUISTION & EXPLOITATION TOTAL DEPARTMENT OF DEFENSE (OSD AND CASDS) 01015D TECHNOLOGY TRANSFER FUNCTIONS ITEM NOMENCLATURE GENERAL SUPPORT FOR A&L GENERAL SUPPORT TO C31 DEFENSEWIDE MISSION SUPPORT TAPESTRY 65119D 65116D PRØGRAM ELEMENT NUMBER 65113D LINE 62 65 99 29

DEFENSE ADVANCED RESEARCH PRØJECTS AGENCY FY 1987 R D T & E PRØGRAM

DATE: 04 FEB 1986 EXHIBIT R-1 APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES

0 000 t	4,000	4, 000	14, 700 2, 911 2, 800	6 6 6	TECHNICAL ANALYTICAL SUPPORT BLACKLITE SMALL BUSINESS INNOVATIVE RESEARCH	65112E 65114E 65502E	63
U 000 7	4,000	4,000	14, 700	ယ ယ	TECHNICAL ANALYTICAL SUPPORT BLACKLITE	65112E 65114E	63
			14, 700	ဖ	TECHNICAL ANALYTICAL SUPPORT	65112E	61
20, 101							
248 753	232, 600	177, 179	173, 692		ADVANCED TECHNÖLÖGY DEVELÖPMENT	ADVANCE	
80,000 U	60,000			RAM 2	NATIONAL AERÓ SPACE PLANE TECHNÖLÖGY PROGRAM	63269E	21
168, 753 U	172,600	177,179	173,692	Ø	EXP EVAL OF MAJOR INNOVATIVE TECH	63226E	20
648,000	589, 080	546, 590	435, 887		TECHNOLOGY BASE	TECHNO	
24, 400 U	19, 400	19, 500	18, 158	-	NUCLEAR MONITORING	62714E	11
42, 600 U	34,660	29, 490	26,876	-	MATERIALS PRÖCESSING TECH	62712E	10
64,800 U	56, 500	49,000	46, 333	-	INTEGRATED COMD/CONTROL TECH	62708E	Ø
D	15,500	20,000	16,400	-	PARTICLE BEAM TECHOLOGY	62707E	ω
117,000 U	114,000	94,250	99,042	_	TACTICAL TECHNOLOGY	62702E	7
259, 500 U	240, 620	239, 370	152,771	-	STRATEGIC TECHNOLOGY	62301E	ω
1,700 U		1,500	1,500	-	TECHNICAL STUDIES	62101E	ດ
24, 600 U	12,500	5, 980		-	UNIVERSITY RESEARCH	61103E	4
113,400 U	95, 900	87,500	74,807	-	DEFENSE RESEARCH SCIENCES	61101E	-
FY 1988 C	FY 1987	FY 1986	FY 1985	ACT	ITEM NOMENCLATURE	ELEMENT NUMBER	L I NE
F DØLLARS	THOUSANDS OF DOLLARS			;		PROGRAM	

DEFENSE ADVANCED RESEARCH PROJECTS AGENCY FY 1987 R D T & E PROGRAM

		λ4 	1987 R	FY 1987 R D T & E PROGRAM	AM	ШX	EXHIBIT R-1
APPROF	RIATION:	APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES	F AGENCIE	ø		DATE: 04 FEB 1986	DATE: 04 FEB 1986
1 1 1		4 1 1 2 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2	6 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		THOUSANDS OF DOLLARS	
LINE	PROGRAM ELEMENT NUMBER	I TEM NOMENCLATURE	ACT	FY 1985	FY 1985 FY 1986	FY 1987 FY 19	FY 1988 C
73	65898E DEFENSE	5898E MGT HQ (RESEARCH/DEVELOPMENT) Defensewide mission support	ဖ	31, 552	12,148	12,200	13,300 U 17,300
TOTAL		DEFENSE ADVANCED RESEARCH PRØJECTS AGENCY		641, 131	739, 917	837,880	914,053
			ONC	UNCLASSIFIED		PAGE D-15	

NATIONAL SECURITY AGENCY FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPR	SPRIATION:	APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES	EF AGENCI	S			DATE: 04 FEB 1986
	PROGRAM					THOUSANDS OF DOLLARS	F DOLLARS
LINE	ELEMENT	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
4	310116	310116 CRYPTOLOGIC ACTIVITIES	ល				
5	334016	COMMUNICATIONS SECURITY	Ю				
48	351596	DEF RECONNAISSANCE ACTIVITIES	Ю				
20	351676	COMPUTER SECURITY	ľ				
52	358856	358856 TACTICAL CRYPTOLOGIC ACTIVITIES	ß				
	INTELLI	INTELLIGENCE AND COMMUNICATIONS					

TOTAL NATIONAL SECURITY AGENCY

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DEFENSE NUCLEAR AGENCY FY 1987 R D T & E PROGRAM

EXHIBIT R-1 DATE: 04 FEB 1986 APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES

0000		1	,		THOUSANDS OF DOLLARS	THOUSANDS OF DOLLARS
LINE ELEMENT NO NUMBER	ITEM NOMENCLATURE	ACT	FY 1985	1	FY 1987	FY 1988 C
		i i	1 1 1 1 6 8	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
12 62715H	12 62715H DEFENSE NUCLEAR AGENCY	-	333, 237	350, 988	347,013	408, 149 U
			f		1 1 1 1 1 1	1 1 1 1 1 1
OTAL DEFENSE	TOTAL DEFENSE NUCLEAR AGENCY		333, 237	350, 988	347,013	408, 149
				11	PAGE 0-17	

DEFENSE RECONNAISSANCE SUPPORT PROGRAM FY 1987 R D T & E PROGRAM

APPROF	RIATION	APPRCPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES	F AGENCIE	\$		DATE: 04 FEB 1986 THOUSANDS OF DOLLARS	DATE: 04 FEB 1986
LINE B	PROGRAM LINE ELEMENT NO NUMBER	ITEM NOMENCLATURE	ACT	FY 1965	FY 1986	FY 1987	FY 1988 C
9	351591	DEFENSE RECONNAISSANCE SUPPORT ACTIVITIES	ın	354, 178	252, 607	147,055	
TOTAL	DEFENS	THIAL DEFENSE RECONNALSSANCE SUPPORT PROGRAM		354,178	252, 607	147,055	
!						PAGE D-18	

JOINT CHIEFS OF STAFF FY 1987 R D T & E PROGRAM

		တ	шО	5		
EXHIBIT R-1	DATE: 04 FEB 1986	F DOLLARS	FY 1988 C	5, 406 U	5, 406	
Ω .	DATE: 04	THOUSANDS OF DOLLARS	FY 1987	5,000	5,000	PAGE D-19
AM	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		FY 1986		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	a.
FY 1987 R D T & E PROGRAM	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FY 1985			THE CONTRACTOR
FY 1987 R	ENT TEST & EVAL DEF AGENCIES	1	ACT	6		CRET
	ARCH DEVELOPM		ITEM NOMENCLATURE	65115J CINC CONTRACT STUDIES SUPPORT	AFF	
	IN: 0400 D RESE		_	CINC CONTRA	TOTAL JOINT CHIEFS OF STAFF	
	PRIATION	PROGRAM	NUMBER		JOINT	
	APPRE	<u>u</u> 2	NO	64	TOTAL	

DEFENSE COMMUNICATIONS AGENCY FY 1987 R D T & E PROGRAM

E FY 1988 C 2,227 U 53,095 U 11,897 U 16,149 U 10,542 U 2,219 U 38,839 U 2,447 U 137,415 91,683 41,286 THOUSANDS OF DOLLARS DATE: 04 FEB 1986 EXHIBIT R-1 2, 158 3,041 119,292 2,062 72,918 19, 279 39,113 FY 1987 31,853 10,485 11,301 PAGE D-20 11,816 2,083 16,256 2,803 19,059 106,807 21,033 83,852 FY 1986 1,813 14,131 36,872 20,238 1,750 2,047 98,676 4,762 4,579 FY 1985 26,658 3,036 26,408 13,777 74,641 15,659 APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES ACT 0 c (7) 3 33131K MINIMUM ESSENTIAL EMER COMM NETWORK 33126K LCNG-HAUL COMMUNICATIONS (DCS) COMMAND AND CONTROL RESEARCH I TEM NOMENCLATURE INTELLIGENCE AND COMMUNICATIONS WWMCCS SYSTEM ENGINEER DEFENSE COMMUNICATIONS AGENCY 21135K CINC C2 INITIATIVES SUPPORT OF THE NCS NMCS-WIDE SUPPORT WWMCCS ADP-JTSA STRATEGIC PROGRAMS ISLAND SUN 33127K 32019K 32017K PRGGRAM ELEMENT NUMBER 63734K 32016K 35108K TOTAL LINE 36 43 44 27 30 31

DEFENSE INTELLIGENCE AGENCY FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPR	OPRIATION	APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES	EF AGENCIE	1 1 1	0 3 3 0 6 1 1 3 3 0 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DATE: 04 FEB 1986	DATE: 04 FEB 1986
<u>1</u>	PROGRAM		i	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		THOUSANDS OF DOLLARS	OF DOLLARS
No.	NUMBER	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
42		31301L GENERAL DEFENSE INTELLIGENCE PROGRAM	ស				
21		35884L INTEL PLAN AND REVIEW ACTYS	Ю				
	INTELL	INTELLIGENCE AND COMMUNICATIONS					

TOTAL DEFENSE INTELLIGENCE AGENCY

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		J6	SINT TAC	JØINT TACTICAL C3 AGENCY FY 1987 R D T & E PRØGRAM	Y. AM	Û	EXHIBIT R-1
APPR	OPRIATION:	INT TEST &	AGENC I E	60		DATE: 04	DATE: 04 FEB 1986
1 1 6	PROGRAM		1 2 2 1 1 1 1 1			THCUSANDS OF DOLLARS	OF DOLLARS
LINE		I TEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
37	280450	28045Q C3 INTERØPERABILITY (JØINT TACTICAL C3 AGCY)	4		57, 271	68, 835	63, 473 U
38	282980	MANAGEMENT HEADQUARTERS (JTC3A)	4		1,858	8,816	8, 223 U
	TACTICA	TACTICAL PROGRAMS		i 1 1 1 1 1 1	59, 129	77, 651	71,696
TOTAL		JØINT TACTICAL C3 AGENCY		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	59, 129	77, 651	71,696

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DEFENSE LÖGISTICS AGENCY FY 1987 R D T & E PRÖGRAM

APP	ROPRIATION	APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES	AGENC I ES			DATE: 04 FEB 1986	DATE: 04 FEB 1986
1 1 1					;	THOUSANDS OF DOLLARS	
LINE	PROGRAM E ELEMENT NUMBER	I TEM NOMENCLATURE		FY 1965 FY 1986	FY 1986	FY 1987	FY 1988 C
69		65711S CRITICAL TECHNOLOGY ANALYSIS		i i i	! ! ! !	3,000	3,800 U
70		DEFENSE TECHNICAL INFØ CENTER	9	16,873	20, 328	22, 500	28,921 U
71		65802S INFORMATION ANALYSIS CENTERS	ω	5, 750	6, 500	7, 550	8,550 U
74		78011S INDUSTRIAL PREPAREDNESS	9	1,927	5,000	11,500	15, 100 U
	DEFENS	DEFENSEWIDE MISSION SUPPORT		24, 550	31,828	44, 550	56, 371
TOTAL		DEFENSE LOGISTICS AGENCY		24, 550	31,828	44, 550	56, 371
			UNCLAS	UNCLASSIFIED	a.	PAGE D-23	

UNIFORMED SERVICES UNIVERSITY HEALTH SCIENCES FY 1987 R D T & E PROGRAM

EXHIBIT R-1

DATE: 04 FEB 1986	S	FY 1988 C	2, 483 U	2, 483	
DATE: 04 FEB 1986	THØUSANDS	FY 1987	2, 021	2, 021	PAGE D-24
1 1 2 2 2 4 4 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FY 1986	1,748	1,748	
S		FY 1985	1,766	1,766	
DEF AGENCIE	1 1	ACT	-		
APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES		ITEM NÖMENCLATURE	IN-HÖUSE LAB INDEPENDENT RESEARCH	TOTAL UNIFORMED SERVICES UNIVERSITY HEALTH SCIENCES	
PRIATION	PRØGRAM	ELEMENT NUMBER	61101W	UNIFOR	
APPRC		L I NE	a	TOTAL	

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